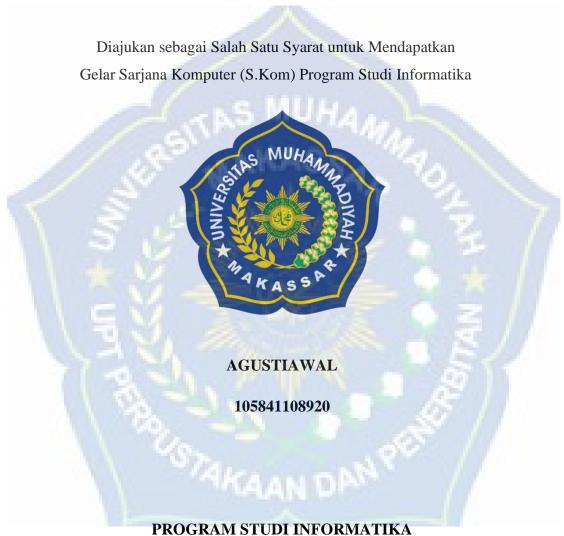
KOMBINASI VADER LEXICON DAN SVM DALAM MENGKLASIFIKASI SENTIMENT TRANSPORTASI ONLINE (GRAB) PADA ULASAN PLAY STORE

SKRIPSI



FAKULTAS TEKNIK

UNIVERSITAS MUHAMMADIYAH MAKASSAR

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ABSTRAK

AGUSTIAWAL. KOMBINASI *VADER LEXICON* DAN SVM DALAM MENGKLASIFIKASI SENTIMENT TRANSPORTASI ONLINE (GRAB)PADA ULASAN PLAY STORE (di bimbing oleh Fahrim Irhamna Rahman S.Kom.,MT dan Titin Wahyuni S.Pd., MT.,)

Perkembangan teknologi digital telah meningkatkan interaksi pengguna dengan layanan transportasi online seperti Grab. Ulasan pengguna yang terdapat di Google Play Store mengandung informasi berharga mengenai kepuasan dan keluhan pengguna, yang dapat dianalisis untuk meningkatkan kualitas layanan. Penelitian ini bertujuan untuk mengklasifikasikan sentimen pengguna terhadap aplikasi Grab berdasarkan ulasan teks menggunakan kombinasi metode VADER Lexicon dan algoritma Support Vector Machine (SVM). Metode VADER digunakan untuk memberikan label sentimen awal (positif, negatif, atau netral) berdasarkan skor leksikal, yang kemudian digunakan sebagai data latih untuk melatih model SVM. Dataset diperoleh dari 2999 ulasan pengguna Grab yang telah diproses melalui tahapan pembersihan data, terjemahan, tokenisasi, dan ekstraksi fitur menggunakan TF-IDF. Hasil evaluasi menunjukkan bahwa model SVM yang dilatih dengan bantuan labeling dari VADER mampu mencapai akurasi sebesar 86%. Kelas sentimen positif memperoleh nilai presisi 0,93 dan recall 0,98, menunjukkan performa model yang sangat baik dalam mengenali ulasan positif. Meskipun demikian, masih terdapat tantangan dalam mengklasifikasikan sentimen netral dan negatif secara akurat, terutama akibat ketidakseimbangan data. Secara keseluruhan, kombinasi VADER dan SVM terbukti efektif untuk analisis sentimen ulasan pengguna terhadap layanan transportasi online.

Kata Kunci: Analisis Sentimen, Grab, VADER Lexicon, Support Vector Machine, Ulasan Pengguna, Google Play Store.

ABSTRAK

AGUSTIAWAL. KOMBINASI *VADER LEXICON* DAN SVM DALAM MENGKLASIFIKASI SENTIMENT TRANSPORTASI ONLINE (GRAB)PADA ULASAN PLAY STORE (di bimbing oleh Fahrim Irhamna Rahman S.Kom.,MT dan Titin Wahyuni S.Pd., MT.,)

The advancement of digital technology has increased user interaction with online transportation services such as Grab. User reviews available on the Google Play Store contain valuable information regarding user satisfaction and complaints, which can be analyzed to improve service quality. This study aims to classify user sentiment toward the Grab application based on textual reviews using a combination of the VADER Lexicon method and the Support Vector Machine (SVM) algorithm. The VADER method is used to provide initial sentiment labels (positive, negative, or neutral) based on lexical scores, which are then used as training data to train the SVM model. The dataset consists of 2,999 Grab user reviews that have been processed through data cleaning, translation, tokenization, and feature extraction using TF-IDF. Evaluation results show that the SVM model trained with the help of VADER labeling achieved an accuracy of 86%. The positive sentiment class achieved a precision of 0.93 and a recall of 0.98, indicating excellent model performance in recognizing positive reviews. However, there are still challenges in accurately classifying neutral and negative sentiments, primarily due to data imbalance. Overall, the combination of VADER and SVM proves effective for sentiment analysis of user reviews on online transportation services.

Keywords: Sentiment Analysis, Grab, VADER Lexicon, Support Vector Machine, User Reviews, Google Play Store.

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BABI

PENDAHULUAN

A. Latar Belakang

Perkembangan teknologi yang sangat pesat membawa pengaruh yang besar bagi kehidupan manusia. Salah satu dampak dari perkembangan teknologi tersebut adalah semakin maraknya penggunaan transportasi online melalui media internet (Rizki Wahyudi & Kusumawardhana, 2021). Dalam beberapa dekade terakhir, analisis sentimen telah menjadi fokus penting dalam penelitian di bidang Pemrosesan Bahasa Alami (*Natural Language Processing* atau NLP). Analisis sentimen merupakan proses untuk mengidentifikasi atau mengkategorikan opini pengguna dalam bentuk teks mengenai berbagai hal seperti film, produk, acara, dan lainnya, baik itu bersifat positif, negatif, maupun netral. Analisis sentimen sangat bermanfaat untuk mengidentifikasi, mengekstraksi, dan mempelajari informasi subjektif tentang produk suatu perusahaan. Sering kali, perusahaan membutuhkan wawasan yang lebih mendalam mengenai sentimen terhadap produk mereka, seperti aspek-aspek tertentu dari produk yang perlu dievaluasi (Raihan & Erwin, 2022).

Berdasarkan data dari situs Google Play per 25 September 2020, aplikasi Grab telah diunduh lebih dari 100 juta kali dan memiliki rating sebesar 4,5. Di Google Play juga terdapat sebanyak 6.068.925 ulasan pengguna di kolom komentar Grab (Google Play, 2019). Ulasan pengguna tersebut terdiri dari dua bagian, yaitu nilai rating dan komentar dalam bentuk teks. Nilai rating mencerminkan evaluasi keseluruhan pengalaman pengguna dalam skala numerik, sedangkan komentar tekstual memberikan informasi yang lebih mendalam (Wahyudi, 2021). Menurut Watrianthos dan rekan-rekan (2019), ulasan pengguna di Play Store mencakup ulasan positif maupun negatif, seperti keluhan, kritik, atau saran.

Penelitian ini dilakukan karena Grab merupakan salah satu aplikasi layanan digital yang paling banyak digunakan di Indonesia, sehingga

penting untuk menganalisis sentimen pengguna guna mengoptimalkan kepuasan dan meningkatkan kualitas layanan. Perkembangan teknologi yang semakin pesat telah mendorong perubahan dalam gaya hidup masyarakat, termasuk dalam hal transportasi. Masyarakat kini tidak perlu lagi mengalami kesulitan dalam mencari layanan ojek, karena telah tersedia berbagai aplikasi transportasi online yang praktis dan mudah diakses. Salah satu aplikasi yang banyak digunakan dan memiliki jumlah pengguna yang adalah Grab. Popularitas Grab di kalangan masyarakat menjadikannya menarik untuk diteliti, khususnya dalam mengetahui bagaimana sentimen atau pendapat pengguna terhadap layanan yang diberikan. Oleh karena itu, penulis tertarik untuk menjadikan aplikasi Grab sebagai objek penelitian guna menganalisis sentimen pengguna melalui ulasan yang mereka berikan di platform Google Play Store.

Metode yang digunakan dalam penelitian ini adalah kombinasi antara algoritma *Support Vector Machine* (SVM) dan leksikon VADER. Pendekatan gabungan ini bertujuan untuk memanfaatkan kekuatan masingmasing teknik guna mencapai tingkat akurasi yang lebih tinggi. Integrasi dilakukan secara berurutan, di mana leksikon VADER digunakan terlebih dahulu untuk menetapkan nilai opini, dan data yang dihasilkan digunakan sebagai data anotasi dalam model SVM. Pengelompokan juga diterapkan pada data berdasarkan atribut-atributnya untuk mendapatkan wawasan lebih lanjut tentang orientasi pelanggan. Pada dasarnya, penggabungan ini mengubah pendekatan berbasis leksikon menjadi sebuah mekanisme untuk mentransfer pembelajaran ke model SVM. Harapannya, penggabungan teknik dan algoritma ini akan menghasilkan anotasi opini yang sangat akurat (Nurcahyawati, 2023).

Berdasarkan permasalahan yang telah dijabarkan di atas, maka dibuatlah klasifikasi sentimen menggunakan metode VADER Lexicon dan SVM untuk mengetahui sentimen terhadap layanan transportasi online (Grab) berdasarkan ulasan yang terdapat di Google Play Store.

B. Rumusan Masalah

Bagaimana cara menggunakan *VADER Lexicon* dan algoritma *Support Vector Machine* untuk mengklasifikasikan sentimen ulasan pengguna aplikasi Grab di Play Store?

C. Tujuan Penelitian

Berdasarkan rumusan masalah, maka tujuan dari penelitian adalah:

Cara menggunakan *VADER Lexicon* dan algoritma *Support Vector Machine* untuk mengklasifikasikan sentimen ulasan pengguna aplikasi Grab di Play Store

D. Manfaat Penelitian

Manfaat yang diharapkan dari penelitian ini untuk membantu mengetahui sentimen pengguna terhadap layanan Grab berdasarkan ulasan di Google Play Store. Ini memberikan gambaran yang lebih jelas tentang tingkat kepuasan dan keluhan pengguna, yang dapat digunakan untuk perbaikan layanan.

E. Ruang Lingkup Penelitian

Dari rumusan masalah di atas, dapat di rumuskan beberapa batasan masalah yaitu:

- 1. Studi kasus pada penelitian ini terbatas pada analisis sentimen terkait ulasan pengguna aplikasi GRAB.
- 2. Dataset yang digunakan hanya diperoleh dari ulasan pada *platform* Google *PlayStore*
- 3. Terbatas hanya menggunakan metode *VADER Lexicon* dan SVM.
- 4. Bahasa Pemrograman yang digunakan adalah Bahasa Python

F. Sistematika Penulisan

Secara keseluruhan penulisan laporan tugas akhir ini terbagi menjadi beberapa bab yang tersusun yaitu:

BAB I PENDAHULUAN

Bab ini menjelaskan tentang latar belakang masalah, rumusan masalah, batasan masalah, tujuan, manfaat dan sistematika penulisan.

BAB II TINJAUAN PUSTAKA

Bab ini menjelaskan tentang teori-teori yang melandasi penulisan dalam melaksanakan skripsi.

BAB III METODE PENELITIAN

Membahas tentang metode penelitian dan alat yang digunakan untuk pembuatan sistem.

BAB IV HASIL DAN PEMBAHASAN

Bab ini membahas tentang hasil dan pembahasan dalam mengklasifikasi sentiment grab menggunakan metode *VADER Lexicon* dan SVM

BAB V PENUTUP

Bab ini membahas tentang kesimpulan dari penelitian dan saran untuk penelitian selanjutnya

BAB II

TINJAUAN PUSTAKA

A. Landasan Teori

1. Analisis Sentimen

Analisis sentimen, juga dikenal sebagai penambangan opini, adalah studi komputasional yang bertujuan mengidentifikasi dan mengungkapkan opini, sentimen, evaluasi, sikap, emosi, subjektivitas, penilaian, atau pandangan terhadap suatu teks (Manggopa *et al.*, 2024). Hasil dari opini ini bisa berupa sentimen positif, negatif, atau netral. Oleh karena itu, analisis sentimen dapat diartikan sebagai proses pengambilan keputusan berdasarkan pendapat dari satu atau lebih individu mengenai objek atau topik tertentu (Mustasaruddin *et al.*, 2023).

Analisis sentimen menjadi semakin penting dengan meningkatnya interaksi pengguna di media sosial, penggunaan forum dan blog, serta ulasan di berbagai aplikasi atau situs *e-commerce* (Jihad *et al.*, 2021). Analisis sentimen erat kaitannya dengan Pemrosesan Bahasa Alami (NLP), yang merupakan kemampuan mesin untuk memahami bahasa manusia melalui penggunaan algoritma komputer, matematika, dan linguistik komputasi (Chandradev *et al.*, 2023).

2. Aplikasi Grab

Grab adalah layanan antar jemput dengan ojek modern berbasis pesanan. Sebagai kendaraan motor roda dua, ojek menjadi moda transportasi yang sangat efektif. Aplikasi ini memungkinkan pengguna untuk memesan ojek secara online, menjadikannya dikenal sebagai ojek yang modern dan profesional (Anam, 2020).

Seiring perkembangan teknologi, banyak usaha yang memanfaatkan teknologi sebagai peluang bisnis di bidang jasa transportasi online. Salah satu layanan transportasi online di Indonesia adalah Grab. Grab mulai beroperasi di Indonesia pada pertengahan tahun 2014 sebagai solusi mengatasi kemacetan dan untuk mendorong transformasi sektor transportasi informal agar lebih profesional. Layanan utama Grab adalah

GrabTaxi, dan seiring waktu berkembang menjadi GrabCar, GrabBike, GrabExpress, GrabFood, dan GrabHitch. Di Yogyakarta, layanan yang ditawarkan Grab meliputi GrabCar, GrabBike, GrabExpress, dan GrabFood. Di Yogyakarta, Grab bersaing dengan GO-JEK dalam jasa transportasi online, dimana keduanya berusaha meningkatkan kualitas pelayanan kepada konsumen (Marsudi, 2020).

3. Vader Lexicon

VADER Lexicon adalah metode yang digunakan untuk menganalisis sentimen dengan pendekatan kamus. Metode ini memanfaatkan kamus lexicon untuk menentukan bobot kata, sehingga memudahkan proses klasifikasi otomatis terhadap kalimat yang dianalisis. Oleh karena itu, lexicon dapat digunakan untuk memberi label pada data latih sebelum model dilatih (Fathoni, 2024).

Dalam penelitian ini akan dilakukan analisis sentimen menggunakan teknik yang berbeda, yaitu berbasis pada leksikon dan aturan (*lexiconand rule-based*) yang disebut VADER. VADER dipilih karena terbukti memiliki akurasi yang lebih baik dibandingkan metode yang lain dan dibuat secara khusus untuk keperluan analisis sentimen pada teks yang diungkapkan di media sosial. Berbeda dengan penelitian-penelitian lainnya yang melakukan pembuatan dan evaluasi model, dalam penelitian ini digunakan model yang telah dibuat sebelumnya. VADER menggunakan 7.500 leksikon sebagai dasar penentuan kelas sentimen dan memiliki tingkat akurasi F1 sebesar 0,96 (lebih baik daripada asesmen oleh manusia dengan akurasi 0,84) Penelitian juga menunjukkan bahwa performa VADER lebih baik dibandingkan metode lain dengan pendekatan yang serupa (*lexicon-based*) seperti TextBlob.

Tahap preprocessing data dilakukan dengan menghapus tweet yang duplikat, kosong, atau *retweet* agar hanya tersisa tweet yang unik dan valid. Selain itu, karakter khusus dan angka juga dihilangkan dari tweet. Selanjutnya, tweet diterjemahkan ke dalam bahasa Inggris menggunakan *Google Translate* karena VADER dikembangkan berdasarkan *corpus*

berbahasa Inggris. Klasifikasi sentimen dilakukan melalui submodul VADER yang ada di modul nltk (*Natural Language Toolkit*), dimana proses ini menghasilkan skor negatif, netral, dan positif untuk setiap tweet.

4. Support Vector Machine (SVM)

SVM (Support Vector Machine) adalah metode untuk menemukan hyperplane optimal yang digunakan untuk mengklasifikasikan data ke dalam kelas yang berbeda. SVM merupakan bagian dari machine learning dengan jenis supervised learning, yang membutuhkan data terklasifikasi sebagai data latih. Hyperplane ini berfungsi untuk menentukan label data yang akan diklasifikasikan sekaligus memaksimalkan margin antara kelas yang berbeda. Setiap data direpresentasikan sebagai titik, dan SVM berupaya memaksimalkan jarak atau margin antara vektor dari kedua kelas tersebut (Fathoni, 2024).

Support Vector Machine (SVM) diperkenalkan oleh Vapnik pada tahun 1992 sebagai metode klasifikasi yang efisien untuk masalah nonlinier. SVM juga dikenal sebagai teknik pembelajaran mesin (machine learning) yang canggih, yang muncul setelah metode pembelajaran mesin sebelumnya yang dikenal sebagai Neural Network (NN). Konsep SVM dapat dijelaskan sebagai pencarian hyperplane optimal yang memisahkan dua kelas dalam ruang input. SVM berupaya menentukan hyperplane pemisah dengan memaksimalkan jarak antara kelas-kelas tersebut. Pendekatan ini memungkinkan SVM untuk memiliki kemampuan generalisasi yang baik terhadap data-data yang akan datang (Zidna et al., 2021).

5. Preprocessing Data

Data *preprocessing* adalah serangkaian langkah yang dilakukan untuk mempersiapkan data agar sesuai dengan format yang dibutuhkan, sehingga dapat digunakan sebagai data uji atau data latih. Langkahlangkah *preprocessing* data mencakup anotasi citra, penyesuaian ukuran citra agar seragam, dan augmentasi data (Pratama, 2023).

Data preprocessing pada teks meliputi beberapa langkah, seperti menghilangkan kata-kata penghubung (*stopwords*) seperti "*or*", "*and*", "*if*", dan sebagainya, menormalisasi setiap kata menjadi bentuk dasarnya, serta menghapus tanda baca yang tidak perlu seperti "*isn't*" (Hakim, 2021).

6. Scikit-Learn

Scikit-learn adalah salah satu modul Python yang menggabungkan berbagai algoritma pembelajaran mesin untuk masalah yang diawasi dan tidak diawasi pada skala menengah. Modul ini sangat efisien untuk penambangan data dan analisis data (Silitonga, 2019). Scikit-learn merupakan pustaka open source untuk analisis data yang dianggap sebagai standar emas dalam Machine Learning (ML) di ekosistem Python. Pustaka ini mencakup berbagai algoritma data mining, termasuk klasifikasi, regresi, dan clustering (D. A. Manalu & Gunadi, 2022).

7. Natural Language Toolkit (NLTK)

Natural Language Toolkit (NLTK) adalah pustakaan (library) Python yang dirancang untuk memproses data teks. NLTK dilengkapi dengan lebih dari 50 corpora dan sumber daya leksikal seperti WordNet. Selain itu, NLTK menyediakan berbagai pustaka untuk pemrosesan teks, termasuk klasifikasi, tokenisasi, stemming, tagging, parsing, dan lainnya (Sari, 2019).

8. Bahasa Pemrograman

Bahasa Pemrograman sering disebut bahasa komputer atau bahasa pemrograman komputer, yaitu sebuah instruksi standar untuk mengendalikan sebuah komputer. Seperangkat aturan syntax dan semantic yang digunakan untuk memberikan sebuah definisi pada program komputer dikenal sebagai bahasa pemrograman. Bahasa ini memungkinkan pemrogram untuk menentukan dengan tepat data apa yang diproses komputer, bagaimana data tersebut disimpan dan dikirimkan, dan tindakan apa yang harus diambil dalam berbagai kondisi. Kegunaan/tujuan dari pemrograman adalah untuk mengisi suatu

program yang dapat melakukan suatu perhitungan atau pekerjaan sesuai dengan keinginan pembuat program (Rahmat Musfikar *et al.*, 2023).

9. Python

Python adalah Bahasa pemrograman yang ditafsirkan untuk tujuan umum dengan filososi desain yang berfokus pada pembacaan kode. Python diklaim sebagai bahasa yang menggabungkan kapabilitas, kemampuan, dengan sintaksis kode yang sangat jelas, dan dilengkapi dengan fungsionalitas pustaka standar yang besar serta komprehensif. Python dapat dikatakan sebagai bahasa pemrograman dengan tujuan umum yang dikembangkan secara khusus untuk membuat source code mudah dibaca. Python juga memiliki library yang lengkap sehingga memungkinkan software engineer untuk membuat aplikasi yang mutakhir dengan menggunakan source code yang tampak sederhana (Muhammad Al Faruqi, 2021).

Bahasa pemrograman *Python* merupakan bahasa pemrograman populer yang memiliki keunggulan sebagai berikut:

- a) Mudah untuk digunakan dalam mengembangkan sebuah produk perangkat lunak, perangkat keras, Internet of Things, aplikasi web, maupun video game.
- b) Selain memiliki keterbacaan kode yang tinggi sehingga kode mudah dipahami, bahasa pemrograman ini memiliki library yang sangat banyak dan luas.
- c) Merupakan bahasa yang mendukung ekosistem Internet of Things dengan sangat baik.

Beberapa fitur yang dimiliki *Python* adalah:

- a) Memiliki kepustakaan yang luas, dalam distribusi *Python* telah disediakan modul-modul siap pakai untuk berbagai keperluan.
- b) Memiliki tata bahasa yang jernih dan mudah dipelajari. Memiliki aturan layout kode sumber yang memudahkan pengecekan, pembacaan kembali dan penulisan ulang kode sumber dalam berorientasi obyek.

- c) Memiliki sistem pengelolaan memori otomatis (garbage collection, seperti java) modular, mudah dikembangkan dengan menciptakan modul-modul baru, modul-modul tersebut dapat dibangun dengan bahasa *Python* maupun C/C++.
- d) Memiliki fasilitas pengumpulan sampah otomatis, seperti halnya pada bahasa pemrograman Java.
- e) *Python* memiliki fasilitas pengaturan penggunaan ingatan komputer sehingga para pemrogram tidak perlu melakukan pengaturan ingatan komputer secara langsung.

B. Penelitian Terkait

1. Ahmad Rifa'I, Risma Ardhani, Denni Pratama, & Fatihanursari. (2024)

Pada penelitian yang berjudul "Analisis Sentimen Terhadap Layanan Aplikasi Grab Indonesia Menggunakan Metode Naïve Bayes" Kesimpulan dari analisis sentimen terhadap layanan aplikasi Grab berdasarkan sekitar 2000 data teks yang dicrawling pada bulan September 2023 menunjukkan bahwa pengguna aplikasi Grab memberikan ulasan positif. Dari total data tersebut, hasil prediksi klasifikasi sentimen menunjukkan bahwa 1677 atau 83,85% merupakan sentimen positif, sedangkan 69 atau 3,45% merupakan sentimen negatif. Hal ini menunjukkan bahwa meskipun mayoritas pengguna memberikan komentar positif pada aplikasi Grab, ada juga sejumlah pengguna yang memberikan komentar negatif. Metode Naive Bayes digunakan untuk mengklasifikasikan hasil, dan algoritma ini menghasilkan hasil klasifikasi yang akurat dengan presisi sebesar 99,64%, recall sebesar 87,12%, dan tingkat akurasi sebesar 84,36%.

2. Siti Ernawati, & Risa Wati. (2024)

Pada penelitian yang berjudul "Evaluasi Performa Kernel SVM dalam Analisis Sentimen Review Aplikasi ChatGPT Menggunakan Hyperparameter dan VADER Lexicon" Berdasarkan eksperimen sentimen analisis ulasan pengguna aplikasi ChatGPT dengan pembagian data 90:10, diperoleh hasil sebagai berikut: kernel linier menghasilkan

akurasi 92,23%, presisi 92,12%, F1 score 95,90%, dan AUC 86%. Kernel polinomial memberikan akurasi 90,78%, presisi 90,78%, F1 score 95,17%, dan AUC 80%. Kernel sigmoid menunjukkan akurasi 92,23%, presisi 92,2%, F1 score 95,90%, dan AUC 80%. Parameter terbaik ditemukan dengan kernel RBF, yang menghasilkan akurasi 92,72%, presisi 93,43%, F1 score 96,10%, dan AUC 88%. Hasil penelitian menunjukkan bahwa kernel pada metode SVM dapat meningkatkan akurasi analisis ulasan aplikasi ChatGPT. Sentimen positif yang diidentifikasi menggunakan VADER Lexicon lebih tinggi daripada sentimen negatif, menunjukkan bahwa pengguna merasa sangat terbantu oleh aplikasi ChatGPT. Disarankan untuk penelitian selanjutnya membandingkan algoritma SVM dengan beberapa algoritma pengklasifikasi teks lainnya seperti Naïve Bayes atau K-Nearest Neighbors (KNN).

3. Syafika Syifa Maulidah

Penelitian yang berjudul "Analisis Sentimen Terhadap Brand Reputation Super Apps Gojek Dan Grab Di Indonesia Menggunakan Algoritma Machine Learning" Berdasarkan analisis sentimen terhadap reputasi merek menggunakan algoritma pembelajaran mesin, ditemukan bahwa untuk data cuitan Twitter Januari 2023, Gojek memiliki 1.832 sentimen positif dan 3.710 sentimen negatif, sementara Grab memiliki 1.047 sentimen positif dan 1.407 sentimen negatif. Indeks reputasi merek net (NBR) untuk Gojek adalah -33,89 dan untuk Grab -14,64, menunjukkan lebih banyak sentimen negatif untuk kedua aplikasi. Dari tiga algoritma yang diuji—random forest classifier, support vector machine, dan long short term memory—*Support Vector Machine* menunjukkan performa terbaik untuk data Gojek dengan akurasi 0,92 dan f-1 score 0,90, sedangkan long short term memory unggul pada data Grab dengan akurasi dan f-1 score 0,91, berkat penerapan ekstraksi fitur word embedding.

4. Selva Indah Nurhafida, Falentino Sembiring(2022)

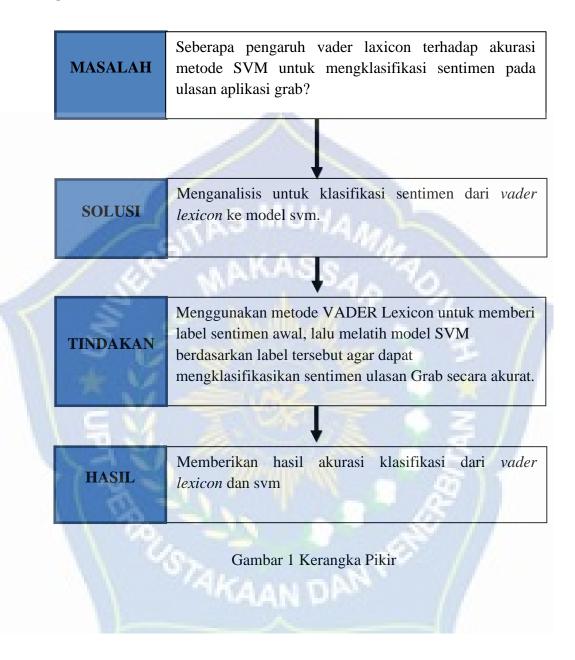
Di penelitian "Analisis Sentimen Aplikasi Novel Online Di Google Play Store Menggunakan Algoritma Support Vector Machine (SVM)" Dapat menarik kesimpulan Berdasarkan hasil analisis, dari total 4.137 ulasan pengguna, aplikasi Wattpad mendapat 33,12% sangat tidak suka, 17,04% tidak suka, 15,71% netral, 11,31% suka, dan 22,82% sangat menyukai. Sedangkan aplikasi Dreame mendapatkan 10,94% sangat tidak suka, 17,04% tidak suka, 15,71% netral, 11,31% suka, dan 22,82% sangat menyukai. Ini menunjukkan Dreame unggul dibandingkan Wattpad Akurasi aplikasi Wattpad adalah 88,60% dengan SVM, dimana 303 dari 342 data diklasifikasikan dengan benar. Sebaliknya, Dreame memiliki akurasi 87,45%, dengan 230 dari 263 data diklasifikasikan dengan benar. Sentimen positif Wattpad terkait dengan membaca offline dan gratis, sedangkan Dreame terkait dengan penggunaan sistem koin gratis. Sentimen negatif Wattpad berhubungan dengan update terbaru, sistem berbayar, dan masalah pendaftaran, sementara Dreame mengeluhkan waktu loading bab dan sistem koin.

5. Rizki Wahyudi & Gilang Kusumawardhana (2021)

Pada penelitian ini berjudul "Analisis Sentimen Pada Review Aplikasi Grab Di Google Play Store Menggunakan Support Vector Machine", Berdasarkan hasil eksperimen yang ditampilkan pada Gambar 13, disimpulkan bahwa kata positif yang paling sering diulas oleh pengguna adalah "ovo," yang muncul sebanyak 266 kali. Sementara itu, pada Gambar 17, kata negatif yang paling sering diulas adalah "driver," muncul sebanyak 585 kali, menunjukkan banyaknya keluhan terhadap pengemudi Grab. Dari kata-kata negatif yang sering muncul, terdapat dua kombinasi kata yang sering muncul bersamaan, yaitu "saldo_ovo" dan "tolong_perbaiki," yang menunjukkan keluhan pengguna terkait saldo ovo. Pada penelitian ini, data ulasan yang digunakan masih terbatas pada kategori paling relevan, sehingga penelitian selanjutnya perlu menggunakan ulasan dari kategori lain atau dari rentang waktu tertentu. Selain itu, penelitian mendatang dapat menggunakan pendekatan dengan

pendeteksian emotikon menggunakan metode Lexicon Based Approach.

C. Kerangka Pikir



BAB III

METODE PENELITIAN

A. Tempat dan Waktu Penelitian

1. Tempat Penelitian

Penelitian ini dilakukan secara online dengan mengambil beberapa *review*/ulasan aplikasi GRAB pada platform *Google Playstore*

2. Waktu Penelitian

Adapun pelaksanaan penelitian ini dilakukan mulai pada Juli 2024 dan akan berlangsung hingga seluruh proses pengumpulan data selesai.

B. Alat dan Bahan

1. Kebutuhan Hardware

a. Laptop Asus VivoBook X415JAB

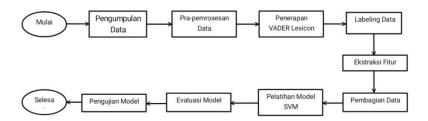
2. Kebutuhan Software

- a. Visual Studio Code
- b. Excel
- c. Phyton
- d. Scikit-learn dan NLTK

C. Perancangan Sistem

Perancangan sistem merupakan bagian penting dalam pengembangan sistem, karena menggambarkan proses dari tahap perencanaan hingga penerapan fungsi-fungsi yang diperlukan untuk operasi. Tujuan utama dari perancangan ini adalah memastikan bahwa sistem yang dibangun dapat mencapai hasil yang diinginkan.

Flowchart atau diagram alir adalah representasi visual yang menunjukkan urutan langkah-langkah dan keputusan yang diperlukan untuk menjalankan sebuah proses dalam program. Setiap langkah digambarkan dalam bentuk diagram dan dihubungkan oleh garis atau panah untuk menunjukkan arah aliran proses.



Gambar 2 Perancangan Sistem

Berdasarkan perancangan sistem di atas, yang pertama kali dilakukan adalah mengumpulkan ulasan pengguna dari aplikasi grab di playstore, sesudah itu bersihkan data ulasan yang sudah dikumpulkan dari karakter-karakter khusus, tanda baca, dan katakata yang tidak relevan, selanjutnya Gunakan VADER (Valence Aware Dictionary and Sentiment Reasoner) untuk menghitung skor sentimen dari setiap ulasan. VADER cocok untuk analisis sentimen di media sosial karena bisa menangani kata-kata informal dan emoticon. Setiap ulasan akan diberikan skor sentimen positif, negatif, netral, dan komposit, kemudian Berdasarkan skor sentimen komposit dari VADER, klasifikasikan setiap ulasan sebagai positif, negatif, atau netral. Labeling ini diperlukan sebagai data latih untuk model SVM, kemudian Ekstrak fitur-fitur yang relevan dari ulasan, seperti frekuensi kata-kata, bigram, trigram, atau fitur lain yang bisa mendukung klasifikasi sentimen. Fitur-fitur ini akan digunakan sebagai input untuk model SVM, dengan Bagi dataset menjadi dua bagian: data latih (training set) dan data uji (test set). selanjutnya Latih model Support Vector Machine (SVM) menggunakan data latih yang sudah diberi label dan fitur-fitur yang sudah diekstraksi. SVM akan mencari hyperplane terbaik yang memisahkan kelaskelas sentimen (positif, negatif, netral) dengan margin yang maksimal. Kemudian evaluasi model SVM menggunakan data uji untuk mengukur performa model dengan melakukan pengujian

lebih lanjut dengan ulasan baru untuk memastikan model dapat beradaptasi dan tetap akurat dalam kondisi nyata. dengan mengimplementasikan model yang sudah dilatih ke dalam sistem yang akan digunakan untuk menganalisis sentimen ulasan Grab secara real-time. dann yang terakhir Dokumentasikan seluruh proses dan hasil yang didapatkan dalam bentuk laporan skripsi.

Penggunaan metode VADER Lexicon dan algoritma Support Vector Machine (SVM) dalam penelitian ini memiliki kelebihan dan kekurangan masing-masing yang saling melengkapi. VADER Lexicon merupakan metode analisis sentimen berbasis leksikal yang dirancang khusus untuk menangani bahasa informal seperti yang umum ditemukan pada media sosial atau ulasan aplikasi. Keunggulan utama VADER terletak pada kemampuannya memberikan skor sentimen (positif, negatif, netral, dan komposit) secara cepat dan akurat tanpa perlu proses pelatihan model. Selain itu, VADER mampu mengenali emotikon, huruf kapital, serta tanda baca yang memengaruhi intensitas sentimen. Namun, VADER juga memiliki keterbatasan, terutama pada konteks kalimat yang kompleks, ironi, atau sarkasme yang sulit ditangkap oleh metode berbasis kamus. VADER juga bergantung pada kosakata yang sudah ditentukan sebelumnya, sehingga tidak mampu mengenali istilah baru yang belum terdapat dalam leksikonnya.

Sementara itu, algoritma SVM berperan dalam melakukan klasifikasi sentimen berdasarkan hasil labeling dari VADER dan fitur-fitur yang diekstraksi dari data. SVM dikenal efektif dalam mengolah data berdimensi tinggi seperti teks, serta mampu menghasilkan performa yang baik meskipun data memiliki jumlah fitur yang besar. Dengan bantuan teknik kernel, SVM juga dapat menangani pola non-linear, menjadikannya fleksibel untuk berbagai jenis data. Selain itu, SVM cenderung lebih tahan terhadap overfitting dibandingkan algoritma klasifikasi lain. Meski demikian,

SVM memiliki kelemahan dalam hal efisiensi ketika diterapkan pada dataset berukuran besar karena proses pelatihan yang memakan waktu dan memori. Selain itu, performa SVM sangat bergantung pada pemilihan parameter dan jenis kernel yang tepat, serta tidak memiliki interpretabilitas yang tinggi sehingga sulit untuk menjelaskan proses klasifikasinya secara transparan. Oleh karena itu, kombinasi antara VADER dan SVM dipilih dalam penelitian ini karena dapat saling melengkapi: VADER memberikan skor awal berbasis leksikal secara cepat, sementara SVM meningkatkan akurasi klasifikasi melalui pembelajaran mesin.

D. Teknik Pengujian Sistem

Pengujian sistem bertujuan untuk mengevaluasi kinerja model klasifikasi sentimen menggunakan kombinasi *VADER Lexicon* dan *Support Vector Machine* (SVM). Pengujian dilakukan dengan membandingkan hasil prediksi model terhadap label asli pada dataset ulasan aplikasi Grab yang diperoleh dari *Google Play Store*.

Metode pengujian yang digunakan dalam penelitian ini adalah pengujian empiris, yang membandingkan hasil prediksi model dengan label sebenarnya. Pengujian ini dilakukan dengan teknik evaluasi berbasis *Confusion Matrix*, yang memberikan metrik performa seperti:

1.Akurasi (Accuracy):

Langkah-langkah:

- a) Menghitung jumlah prediksi yang benar untuk semua kelas (positif, negatif, netral).
- b) Menghitung total seluruh prediksi (benar + salah).
- Mengukur persentase prediksi yang benar dibandingkan dengan total data uji.

2.Presisi (*Precision*):

Langkah-Langkah:

a) Untuk setiap kelas (misalnya kelas Positif):

- Menghitung jumlah True Positives (TP): prediksi benar untuk kelas tersebut.
- Menghitung jumlah False Positives (FP): prediksi salah yang diklasifikasikan sebagai kelas tersebut.
- b) Mengukur ketepatan model dalam mengklasifikasikan ulasan positif, negatif, atau netral.

3.Recall (Sensitivity):

Langkah-Langkah:

- a) Untuk setiap kelas:
 - Menghitung True Positives (TP).
 - Menghitung False Negatives (FN): data yang sebenarnya termasuk dalam kelas tersebut, tapi diprediksi sebagai kelas lain.
- b) Mengukur sejauh mana model dapat menangkap semua ulasan dalam satu kategori tertentu.

4.F1-Score:

Langkah-Langkah:

a) Menggabungkan presisi dan recall dalam satu metrik untuk memberikan gambaran keseimbangan performa model.

E.Teknik Analisis Data

Analisis data adalah usaha untuk mencari dan menyusun hasil observasi, wawancara, dan hasil lainnya secara sistematis guna meningkatkan pemahaman peneliti tentang kasus yang dipelajari serta menyajikannya sebagai temuan bagi orang lain. Proses ini juga melibatkan pengurutan dan pengorganisasian data ke dalam pola, kategori, dan deskripsi dasar sejak awal pengumpulan data di lapangan, untuk memastikan bahwa data terkumpul secara lengkap dan terstruktur (Nurdewi, 2022). Untuk mencapai hasil yang diinginkan maka peneliti melakukan beberapa tahapan analisis sebagai berikut:

1. Reduksi Data (Data Reduction)

Reduksi data adalah proses menyederhanakan, memilah, dan mengubah data kasar menjadi bentuk yang lebih mudah dikelola dan dipahami. Dalam tahap ini, data yang relevan dipilih dan dirangkum sementara data yang tidak relevan dibuang. Proses ini melibatkan kegiatan seperti coding, pengelompokan, dan pembuatan tema atau kategori. Tujuannya adalah untuk mengidentifikasi pola dan tema utama yang muncul dari data sehingga memudahkan analisis lebih lanjut.

2. Penyajian Data (Display Data)

Penyajian data adalah proses menata data yang telah direduksi dalam bentuk yang terorganisir dan mudah dipahami. Data dapat disajikan dalam berbagai bentuk seperti teks naratif, tabel, grafik, atau diagram. Penyajian data bertujuan untuk membantu peneliti memahami informasi yang kompleks dengan lebih baik dan untuk mendukung proses penarikan kesimpulan. Ini juga memudahkan dalam mengkomunikasikan temuan kepada audiens lain.

3. Penarikan Kesimpulan (Conclucing Drawing Verification)

Penarikan kesimpulan adalah tahap di mana peneliti mengevaluasi data yang telah direduksi dan disajikan untuk membuat interpretasi dan kesimpulan yang valid. Proses ini melibatkan mencari hubungan, pola, dan makna dalam data serta mengaitkan temuan dengan pertanyaan penelitian atau hipotesis yang telah ditetapkan. Kesimpulan yang ditarik harus didasarkan pada bukti yang kuat dan dapat diandalkan dari data yang telah dianalisis.



BAB IV HASIL DAN PEMBAHASAN

A. Pengumpulan Data

Penelitian ini mengumpulkan ulasan pengguna aplikasi Grab dari Play Store dengan bantuan bot. Bot ini secara otomatis mengambil data ulasan, termasuk teks, rating, dan tanggal ulasan. Dengan cara ini, data bisa dikumpulkan lebih cepat dan terorganisir, sehingga mencerminkan berbagai pendapat pengguna tentang layanan Grab. Pengambilan data dilakukan dengan mengumpulkan dataset dari aplikasi Grab yang tersedia di Google Play Store dengan menggunakan Bot. Dataset ini terdiri dari sekitar 5000 ulasan yang diberikan oleh pengguna aplikasi. Setelah seluruh data terkumpul, kemudian data dibersihkan dan saya mengambil sekitar 2999 ulasan, selanjutnya diterjemahkan ke dalam bahasa Inggris secara manual dengan bantuan Google Translate untuk memastikan kesesuaian makna.

Penelitian ini bertujuan untuk menganalisis persepsi pengguna terhadap aplikasi Grab dengan cara mengumpulkan ulasan langsung dari Google Play Store. Proses pengambilan data dilakukan secara otomatis menggunakan bot web scraping, yaitu program yang dirancang untuk mengekstraksi data dari halaman web secara sistematis. Bot ini mengambil elemen-elemen penting dari setiap ulasan, termasuk teks ulasan, rating bintang, dan tanggal ulasan.

Dengan menggunakan bot, proses pengumpulan data menjadi lebih cepat, efisien, dan terorganisir dibandingkan pengambilan secara manual. Pendekatan ini juga memungkinkan untuk mendapatkan kumpulan data yang lebih representatif dari berbagai waktu dan pengalaman pengguna, sehingga mencerminkan opini yang lebih menyeluruh terhadap layanan Grab.

Secara keseluruhan, sekitar 5000 ulasan berhasil dikumpulkan dari pengguna aplikasi Grab. Setelah proses pengumpulan selesai, dilakukan tahap pembersihan data (data cleaning) untuk menghilangkan duplikasi, teks kosong, simbol atau karakter yang tidak relevan, serta menyaring ulasan yang tidak mengandung informasi berarti. Dari hasil pembersihan ini, dipilih sebanyak 2999 ulasan yang valid untuk dianalisis lebih lanjut.

Untuk kebutuhan analisis berbasis Bahasa Inggris, seluruh ulasan kemudian diterjemahkan secara manual dengan bantuan Google Translate. Meskipun proses terjemahan dibantu oleh alat otomatis, setiap hasil terjemahan tetap diperiksa kembali guna memastikan kesesuaian konteks dan makna antara ulasan asli dalam Bahasa Indonesia dan versi terjemahannya dalam Bahasa Inggris.

1. Data Ulasan

Tabel 1 Dataset Ulasan

NO	ULASAN
19	Adanya aplikasi ini sangat membantu karena ketika kita pergi atau kemana kita ingin pergi, tidak sulit untuk memesan grab dengan mudah. Jadi hati kami lebih tenang alhamdulillah
2.	Pemesanan GrabFood pernah dilakukan oleh restoran yang salah, namun sulit mendapatkan kompensasi
3.	Aplikasi Grab sudah cukup bagus, namun saya merasa terkadang update mengenai driver terlambat sehingga perlu sedikit perbaikan dalam hal komunikasi
4.	Layanan Grab sangat berguna ketika saya ingin berbelanja tanpa harus keluar rumah. GrabFood selalu menawarkan banyak pilihan makanan enak dan murah

5.	Layanan Grab semakin mahal dan tidak sepadan dengan		
	kemudahan yang diberikan		
6.	Grab oke untuk kebutuhan transportasi, namun ada beberapa		
	fitur yang perlu ditingkatkan		
7.	Terima kasih. Sangat membantu bagi saya yang baru pertama		
	kali memesan Grab Bike		
8.	Uninstall Grab karena Founder & Istri dukung Zionis Israel,		
	masih ada aplikasi alternatif lain, jadi jangan khawatir		
	uninstall Grab		
	TAN MANA		
9.	Secara keseluruhan, layanan Grab cukup baik, meski ada		
1.0	beberapa kali pengemudi atau aplikasi mengalami kendala		
10.	Dengan pilihan pembayaran yang beragam, termasuk		
	menggunakan dompet digital, sangat memudahkan saya		
	dalam membayar tanpa harus membawa uang tunai		

Setelah proses penerjemahan selesai, data kemudian disusun dan dimasukkan ke dalam tabel Excel agar lebih terstruktur dan siap untuk tahap analisis lebih lanjut. Langkah ini bertujuan untuk mempermudah pengolahan data dalam proses klasifikasi sentimen menggunakan metode VADER dan SVM.

Tabel 2 Dataset Ulasan bahasa inggris

NO	ULASAN
1.	Having this application is very helpful because when we go
1.	or where we want to go, it's not difficult to easily order a
	grab. So our hearts are calmer thank God
2.	GrabFood orders were once made by the wrong restaurant,
_,	but it was difficult to get compensation
3.	The Grab application is quite good, but I feel that sometimes
	updates about drivers are late, so it needs a little improvement
	in terms of communication
4.	The Grab service is very useful when I want to shop without
/ 3	having to leave the house. GrabFood always offers many
	delicious and cheap food choices
5.	Grab services are increasingly expensive and are not
	commensurate with the convenience they provide
6.	Grab is okay for transportation needs, but some features need
	to be improved
7.	Thank You. Very helpful for me, who ordered a Grab Bike
-	for the first time
8.	Uninstall Grab because the Founder & his wife support the
	Zionist Israel, there are still other alternative applications, so
	don't worry, uninstall Grab
9.	Overall, Grab's service is quite good, although there were a
	few times where the driver or app experienced problems
10.	With various payment options, including using a digital
	wallet, it makes it very easy for me to pay without having to
	carry cash

B. Pelabelan Data

Sentimen dalam ulasan dikategorikan secara manual untuk mengidentifikasi pola dan karakteristik yang menunjukkan sentimen positif, negatif, atau netral. Data ulasan dikumpulkan dari platform Google Play Store pada aplikasi Grab dan disimpan dalam atribut ulasan, sementara hasil klasifikasi seperti positif, negatif, atau netral dicatat dalam atribut label. Berikut adalah tabel yang menunjukkan hasil pelabelan data.:

Tabel 3 Tahap Pelabelan Data

ULASAN	LABEL	
Long trips close by, lots of discounts. Alhamdulillah,	Positif	
especially if it's just a month old but I want to use Grab,	TOSILII	
it turns out I got a discount, wow, I'm really happy		
On several occasions, the driver did not follow the app's	Negatif	
suggested route		
Grab's features are useful, but prices are sometimes	Netral	
difficult to predict depending on traffic conditions	51	
really great, no need to worry if you want to eat, no need	Positif	
to buy it out, just open the grab application then choose		
the food we want and the delivery is also fast and on		
time		
The app frequently crashes on my phone, which is	Negatif	
frustrating	1,15guill	
It's good that the price is quite low but the application	Netral	
often doesn't respond		

C. Preprocessing data

Proses preprocessing atau pra-pemrosesan teks bertujuan untuk membersihkan data ulasan sebelum dianalisis lebih lanjut. Langkah pertama yang dilakukan adalah case folding, yaitu mengubah seluruh huruf dalam teks menjadi huruf kecil agar konsistensi data terjaga, misalnya kata "Alhamdulillah" dan "alhamdulillah" dianggap sama. Setelah itu, dilakukan tokenisasi, yaitu memecah kalimat menjadi bagian-bagian kata (token) agar lebih mudah diproses. Kemudian, dilakukan penghapusan tanda baca seperti titik, koma, tanda seru, dan simbol lain yang tidak memiliki makna penting dalam analisis sentimen. Selanjutnya, dilakukan proses stopword removal, yaitu menghapus kata-kata umum yang tidak membawa makna signifikan dalam analisis, seperti "the", "is", dan "and", dengan menggunakan daftar stopword dari NLTK. Selain itu, hanya kata-kata yang bersifat alfanumerik yang dipertahankan untuk menghindari karakter atau simbol asing. Setelah proses tersebut, dilakukan stemming menggunakan PorterStemmer, yaitu mengubah setiap kata ke bentuk dasarnya agar variasi kata yang memiliki arti serupa (misalnya "driving", "driver", dan "drive") dianggap sama. Hasil akhir dari proses ini adalah teks yang lebih bersih, ringkas, dan siap digunakan sebagai input untuk analisis sentimen menggunakan metode seperti VADER dan SVM.

SESUDAH
Long trips close by, lots of
discounts. Alhamdulillah,
especially if it's just a month
old but I want to use Grab, it
turns out I got a discount,
wow, I'm really happy
The app frequently crashes on
my phone, which is frustrating

26

D. Penerapan Metode VADER Lexicon dan SVM

Pada penelitian ini, metode VADER (Valence Aware Dictionary and sentiment Reasoner) Lexicon dan *Support Vector Machine* (SVM) digunakan untuk analisis sentimen. VADER digunakan untuk memberikan skor sentimen awal pada data teks, sementara SVM digunakan untuk klasifikasi sentimen berdasarkan fitur yang diekstraksi.

1. Penerapan VADER lexicon

Setelah teks ulasan diproses melalui tahap pra-pemrosesan (seperti case folding, tokenisasi, stopword removal, dan stemming), langkah selanjutnya adalah menerapkan analisis sentimen menggunakan metode VADER (Valence Aware Dictionary and sEntiment Reasoner). VADER bekerja dengan menghitung skor sentimen dari sebuah kalimat berdasarkan kamus lexicon yang telah ditentukan sebelumnya. Setiap teks yang telah diproses akan diberikan skor compound yang kemudian dikategorikan menjadi tiga kelas sentimen: positif jika nilai compound ≥ 0.05 , negatif jika ≤ -0.05, dan netral jika berada di antara kedua nilai tersebut. Hasil klasifikasi dari VADER disimpan ke dalam kolom baru bernama VADER_PREDICTION.

2. Penerapan Support Vector Machine (SVM)

Pada tahap ini dilakukan pelatihan model machine learning menggunakan algoritma *Support Vector Machine* (SVM). Sebelum melatih model, data terlebih dahulu dibersihkan dari nilai kosong, dan teks ulasan diubah menjadi representasi numerik menggunakan teknik TF-IDF *tfidf* = *TfidfVectorizer* (*max_features=5000*), yang menghasilkan vektor fitur sebanyak maksimal 5000 kata yang paling sering muncul. Data kemudian dibagi menjadi dua bagian, yaitu data latih dan data uji, menggunakan fungsi train_test_split. Model SVM dengan kernel linear kemudian dilatih menggunakan data latih tersebut. Setelah pelatihan selesai, model digunakan untuk memprediksi sentimen pada data uji, dan hasil evaluasinya

ditampilkan menggunakan metrik classification report, yang mencakup nilai precision, recall, dan F1-score.

Kemudian, pembuatan objek model SVM Menggunakan kernel linear, yang berarti model akan mencoba mencari garis pemisah (*hyperplane*) yang paling optimal dalam bentuk linear untuk memisahkan data ke dalam kelaskelas tertentu, seperti sentimen positif, negatif, atau netral. Kernel linear sangat cocok digunakan dalam klasifikasi teks karena data yang direpresentasikan dalam bentuk vektor (seperti TF-IDF) biasanya sudah cukup linier untuk dipisahkan tanpa perlu transformasi non-linear.

E. Pengujian dan Hasil Metode

. Pengujian bertujuan untuk mengevaluasi performa model dalam mengklasifikasikan sentimen pengguna aplikasi Grab berdasarkan ulasan dari *Google Play Store*.

1. Pengujian Model

Setelah objek model SVM dibuat, langkah selanjutnya adalah melatih model tersebut menggunakan data pelatihan. Pada proses ini, model mempelajari pola dari data latih, yaitu *X_train* sebagai representasi fitur (hasil dari TF-IDF) *dan y_train* sebagai label asli dari data. Model akan mencari garis pemisah terbaik yang memaksimalkan margin antar kelas.

Setelah proses pelatihan selesai, model digunakan untuk memprediksi kelas atau sentimen pada data uji. Di sini, *X_test* adalah fitur dari data uji yang belum diketahui labelnya, dan hasil dari prediksi tersebut disimpan dalam variabel y_pred. Untuk mengetahui seberapa baik kinerja model, hasil prediksi ini dibandingkan dengan label asli pada data uji y_test.

Fungsi classification_report akan menghasilkan evaluasi model dalam bentuk metrik seperti precision, recall, dan F1-score untuk setiap kelas, serta akurasi keseluruhan model. Untuk memperoleh metrik evaluasi tersebut, digunakan beberapa rumus sebagai berikut:

1. *Precision* (Presisi)

Precision=TPTP+FP

Keterangan:

- TP (*True Positive*): jumlah data yang benar-benar positif dan diprediksi positif.
- FP (*False Positive*): jumlah data yang seharusnya negatif/netral tapi diprediksi positif.

Pada kelas Positif:

Jika dari 437 data positif, 430 diprediksi benar (TP) dan 7 salah (FP), maka:

Precision=430430+7=0.93

2. Recall (Sensitivitas)

Recall menunjukkan seberapa baik model menemukan semua contoh aktual dari suatu kelas.

Keterangan:

• FN (False Negative): data positif yang salah diklasifikasikan sebagai negatif/netral.

Pada kelas Positif:

Jika ada 437 data positif, dan 430 dikenali benar (TP), 7 salah klasifikasi (FN), maka:

3. F1-Score

F1=2 X Precision X RecallPrecision+Recall

Dengan Precision = 0.93 dan Recall = 0.98,

F1=2 X 0.93 X 0.980.93+0.98=0.95

4. Accuracy

Accuracy=TP+TNTotal Data

- TN = True Negative, data bukan kelas tersebut yang diprediksi benar.
- Total data uji = 2999.
- Dari laporan, model benar pada 86% kasus, jadi:

Accuracy=Jumlah prediksi benar2999=0.86

∰ Laporan Klasi	fikasi SVM: precision	recall	f1-score	support
	pi cc1310ii		11 30010	Suppor C
Negatif	0.49	0.43	0.46	42
Negatif	0.68	0.58	0.62	78
Netral	0.71	0.60	0.65	42
Positif	0.93	0.98	0.95	437
negatif	0.00	0.00	0.00	1
accuracy			0.86	600
macro avg	0.56	0.52	0.54	600
weighted avg	0.85	0.86	0.85	600

Gambar 3 Laporan klasifikasi SVM

Gambar **SVM** dalam diatas merupakan laporan evaluasi mengklasifikasikan sentimen ulasan. Evaluasi ini mencakup beberapa metrik utama seperti precision, recall, dan f1-score untuk masing-masing kelas sentimen, serta jumlah data (support) yang dimiliki oleh setiap kelas. Dari hasil tersebut, terlihat bahwa model memiliki performa yang sangat baik dalam mengklasifikasikan sentimen positif, dengan nilai precision sebesar 0.93, recall 0.98, dan f1-score 0.95. Hal ini menunjukkan bahwa hampir semua data positif berhasil dikenali dengan tepat oleh model. Jumlah data (support) pada kelas ini juga sangat dominan, yaitu sebanyak 437 data, yang menjadikan kelas positif paling besar dibanding kelas lainnya.

Sementara itu, performa model dalam mengenali sentimen netral tergolong cukup baik, dengan precision sebesar 0.71, recall 0.60, dan f1-score 0.65 dari total 42 data. Namun, untuk kelas negatif, terlihat ada ketidakkonsistenan label, yakni munculnya dua baris berbeda dengan nama "Negatif" (dengan huruf besar) dan "negatif" (dengan huruf kecil). Kedua baris ini memiliki support masing- masing 42, 78, dan 1, yang seharusnya tergabung dalam satu kelas yang sama. Hal ini menyebabkan performa model pada kelas negatif tampak tidak stabil. Sebagai contoh, precision-nya berkisar antara 0.49 hingga 0.68 dan f1-score-nya antara 0.46 hingga 0.62. Bahkan, satu data dengan label "negatif" tidak berhasil diklasifikasikan sama sekali, sehingga precision, recall, dan f1-score-nya adalah 0.

Secara keseluruhan, akurasi model mencapai 0.86 atau 86%, yang berarti 86% data berhasil diklasifikasikan dengan benar. Namun, metrik macro average (yang menghitung rata-rata tanpa memperhatikan jumlah data per kelas) menunjukkan nilai precision 0.56, recall 0.52, dan f1-score 0.54, yang cukup rendah karena adanya ketidakseimbangan distribusi data antar kelas. Sebaliknya, weighted average, yang mempertimbangkan proporsi data per kelas, menunjukkan nilai precision, recall, dan f1-score yang tinggi, masingmasing sebesar 0.85, 0.86, dan 0.85. Hal ini menandakan bahwa performa tinggi pada kelas mayoritas (positif) sangat memengaruhi hasil keseluruhan

2. Hasil Prediksi

Jumlah total data diperoleh dengan menghitung seluruh baris dalam dataset, yaitu sebanyak 2998 data. Selanjutnya, dihitung jumlah data di mana label asli dan prediksi VADER memiliki nilai yang sama, yaitu sebanyak 2052 data. Untuk mengetahui persentase kecocokan, jumlah data yang sama tersebut dibandingkan dengan total data dengan cara membagi 2052 dengan 2998. Hasilnya menunjukkan bahwa 68.45% dari total data memiliki kesamaan antara label asli dan prediksi VADER.

Selanjutnya Jumlah total data yang memiliki kesamaan antara prediksi VADER dan prediksi SVM diperoleh dengan membandingkan kedua kolom PREDIKSI_VADER dan PREDIKSI_SVM. Setiap data yang memiliki nilai prediksi yang sama dihitung, dengan hasil sebanyak 2090 data. Untuk mendapatkan persentase kecocokan, jumlah data yang sama tersebut dibandingkan dengan jumlah total data, yaitu 2998 data, dengan cara membagi 2090 dengan 2998 Hasil perhitungan menunjukkan bahwa 69.71% dari total data memiliki kesamaan antara prediksi VADER dan prediksi SVM.

Dari hasil pengujian ini, dapat disimpulkan bahwa kombinasi *VADER Lexicon* dan SVM efektif dalam mengklasifikasikan sentimen ulasan pengguna Grab dengan tingkat akurasi yang cukup tinggi. Namun, masih terdapat beberapa tantangan dalam menangani teks yang ambigu atau mengandung unsur sarkasme.

BAB V

PENUTUP

A. Kesimpulan

Berdasarkan hasil penelitian yang telah dilakukan, dapat disimpulkan bahwa kombinasi antara metode VADER Lexicon dan algoritma Support Vector Machine (SVM) terbukti efektif dalam mengklasifikasikan sentimen ulasan pengguna aplikasi Grab di Play Store. Dalam proses ini, VADER digunakan sebagai alat awal untuk memberikan skor sentimen secara leksikal, yang kemudian dijadikan fitur masukan bagi model SVM. Dengan demikian, SVM dapat dilatih menggunakan hasil dari VADER untuk meningkatkan akurasi dan performa klasifikasi.

Dari laporan klasifikasi yang ditampilkan pada gambar, model SVM menghasilkan akurasi sebesar 0.86 **atau** 86%, yang menunjukkan bahwa sebagian besar prediksi sentimen sudah tepat. Kelas "Positif" memiliki performa tertinggi, dengan precision sebesar 0.93, recall 0.98, dan f1-score 0.95, yang menunjukkan bahwa model sangat andal dalam mengenali ulasan positif. Sementara itu, kelas lain seperti "Netral" dan "Negatif" juga menunjukkan performa yang cukup baik, meskipun nilainya lebih rendah.

Nilai macro average f1-score sebesar 0.54 menunjukkan bahwa secara ratarata performa model untuk semua kelas belum seimbang, terutama karena adanya satu kelas (label "negatif" kecil) yang memiliki support hanya 1 dan skor 0 pada semua metrik, yang kemungkinan besar merupakan kesalahan label atau data outlier. Secara keseluruhan, hasil ini menunjukkan bahwa pendekatan kombinasi VADER dan SVM mampu melakukan klasifikasi sentimen dengan akurasi tinggi, khususnya dalam membedakan sentimen positif, yang paling dominan dalam dataset.

B. Saran

Untuk penelitian selanjutnya disarankan memperluas studi kasus dengan menganalisis sentimen dari berbagai platform lainnya seperti Twitter atau forum diskusi untuk mendapatkan perspektif yang lebih luas. Penggunaan dataset yang lebih beragam, termasuk ulasan dalam berbagai bahasa, juga dapat meningkatkan akurasi hasil. Selain itu, metode analisis lain seperti Naïve Bayes, Random Forest, atau Deep Learning dapat diterapkan untuk membandingkan performa klasifikasi. Implementasi model dalam sistem nyata, seperti dashboard pemantauan sentimen real-time, dapat membantu Grab dalam meningkatkan kualitas layanan berdasarkan umpan balik pelanggan.



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LAMPIRAN

1.Source Code

```
# Import library yang diperlukan
import pandas as pd
import numpy as np
import nltk
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from nltk.tokenize import word_tokenize
from nltk.sentiment.vader import SentimentIntensityAnalyzer
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.svm import SVC
from sklearn.metrics import classification_report
```

```
[nltk_data] Downloading package vader_lexicon to /root/nltk_data...
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Unzipping tokenizers/punkt.zip.
[nltk_data] Downloading package punkt_tab to /root/nltk_data...
[nltk_data] Unzipping tokenizers/punkt_tab.zip.
True
```

```
# 1. Membaca dataset

df = pd.read_excel('dataulasan.xlsx')
```

```
import string

# 2. Preprocessing dengan stop word, stemming, dan menghapus tanda baca
stop_words = set(stopwords.words('english'))
stemmer = PorterStemmer()

def preprocess_text(text):
    # Case folding
    text = text.lower()

# Tokenisasi
    tokens = word_tokenize(text)

# Menghapus tanda baca dari teks
```

```
tokens = [word for word in tokens if word not in string.punctuation]

# Stop word removal dan filtering karakter spesial
filtered_tokens = [
    word for word in tokens
    if word not in stop_words and word.isalnum()
]

# Stemming
stemmed_tokens = [stemmer.stem(word) for word in filtered_tokens]
return ' '.join(stemmed_tokens)

df['ULASAN'] = df['ULASAN'].apply(preprocess_text)
```

```
# 3. Analisis Sentimen dengan Vader Lexicon
def vader_analysis(text):
    analyzer = SentimentIntensityAnalyzer()
    scores = analyzer.polarity_scores(text)

if scores['compound'] >= 0.05:
    return 'Positif'
elif scores['compound'] <= -0.05:
    return 'Negatif'
else:
    return 'Netral'

df['VADER_PREDICTION'] = df['ULASAN'].apply(vader_analysis)</pre>
```

```
# 1. Menghapus baris dengan nilai NaN pada kolom yang relevan df.dropna(subset=['ULASAN', 'LABEL'], inplace=True)
```

```
# 4. Analisis dengan SVM
# Vectorisasi teks
tfidf = TfidfVectorizer(max_features=5000)
X = tfidf.fit_transform(df['ULASAN'])
y = df['LABEL']
# Split data
```

```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
random_state=42)

# Train SVM
svm = SVC(kernel='linear')
svm.fit(X_train, y_train)

# Prediksi dan evaluasi
y_pred = svm.predict(X_test)
print("\nLaporan Klasifikasi SVM:")
print(classification_report(y_test, y_pred))
```

```
Laporan Klasifikasi SVM:
              precision
                   0.50
                                       0.42
    Negatif
    Negatif
                   0.59
                             0.61
     Netral
                   0.74
                                       0.61
     Positif
                                                   441
                                       0.85
    accuracy
                             0.49
   macro avq
weighted avg
                   0.83
                                       0.84
/usr/local/lib/python3.12/dist-
packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning:
Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
  warn prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.12/dist-
packages/sklearn/metrics/ classification.py:1565: UndefinedMetricWarning:
Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
  warn prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.12/dist-
packages/sklearn/metrics/ classification.py:1565: UndefinedMetricWarning:
Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero division` parameter to control this behavior.
  warn prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

2.Dataset

Α	В	C	n .	
ULASAN .	LABEL			ПĖ
Grab is very helpful in traveling	Positif			
3 Grab makes me more flexible in traveling without having to arrange public transportation schedules	Positif			
4 I once ordered GrabCar, but the driver came with a vehicle that was not suitable	Negatif			
5 It's really good if we don't want to leave the house, just use Grab Food	Positif			
6 Grab is good but unfortunately it's expensive	Netral			
7 There are some drivers who are less friendly and reluctant to follow directions	Negatif			
8 thank you Grab	Positif			
9 It's really good if we don't want to leave the house, just use Grab Food	Positif			
10 good, very helpful	Positif			
11 Disappointingly, Grab is often expensive	Negatif			
12 on time, the driver is friendly	Positif			
13 Thank you for making it easier for me when traveling	Positif			
14 it's very easy 🖟	Positif			
15 Disappointingly, vouchers often disappear and orders never arrive	Negatif			
16 Cool Grab is getting more professional	Positif			
17 good but expensive	Netral			
18 makes it easy, especially if you're sick, it's hard for you to just grab it, lots of promos too	Positif			
19 the driver is friendly and nice	Positif			
20 the driver is good enough to cooperate in the waiting	Positif			
21 Good, easy & simple to use	Positif			
500 What application is this. My account was suddenly blocked. It hinders my work. I couldn't order a car or food. Blocked suddenly it's not clear 501 Meanwhile the service is good 502 Sometimes the application errors, it's difficult to order	Negatif Positif Negatif			
503 the apk is good and accurate	Positif			
504 nicessss	Positif			
505 thanks grab	Positif			
506 I will delete this applicationit's too expensive for meI used to pay 12000 now 17000 is really far away	Negatif			
507 So far it's comfortable and safe if you use Grab, good job 🦁	Positif			
508 Pretty good	Netral			
509 Very bad	Negatif			
510 very helpful	Positif			
511 The more updates the Grab App gets, the worse it gets	Negatif			
The application is quite good, but sometimes there are technical problems	Netral			
513 the response is fast and steady	Positif			
514 Bad application, 4x food orders were canceled and funds were lost	Negatif			
515 good service	Positif			
The application is good but sometimes when I want to search for a place copied from Google map it doesn't work, sometimes it's a bit of a shame	Netral			
517 The prices offered are very competitive, right in your pocket	Positif			
518 Waiting times can be long, especially during peak hours	Negatif			
519 So far, Grab is still satisfactory, but the driver is the same motorbike ordered in the application is not suitable, it's still better if the motorbike is good, it's not suitable, it's bad, the application is not suitable, it's still satisfactory, but the driver is the same motorbike ordered in the application is not suitable, it's still satisfactory, but the driver is the same motorbike ordered in the application is not suitable, it's still satisfactory.				
520 (Good	Positif			
800 On several occasions, the driver did not follow the app's suggested route	Negatif			
801 Grab's service is quite stable, but several times I experienced annoying technical problems	Netral			
802 The Grab application provides a fun, hassle-free and quick to understand experience	Positif			
803 great at everything	Positif			
804 The location is not suitable, it's really far from home, I'm disappointed	Negatif			
805 Sometimes it can't be accessed	Negatif			
806 good job thx	Positif			
807 The quality of Grab's customer service can still be improved, it often takes a long time to get an answer	Negatif			
808 Rotten application, debit card payment funds when canceling orders are held for quite a long time, what kind of service is this. For example, what if a customer needs funds? If I want				
809 The worst motorcycle taxi application. The maps are not clear, they haven't been updated for years. So the problem continues to be with the driver, saying that our point is wrong, evan the worst motorcycle taxi application. The maps are not clear, they haven't been updated for years. So the problem continues to be with the driver, saying that our point is wrong, evan the worst motorcycle taxi application. The maps are not clear, they haven't been updated for years. So the problem continues to be with the driver, saying that our point is wrong, evan the worst motorcycle taxi application. The maps are not clear, they haven't been updated for years. So the problem continues to be with the driver, saying that our point is wrong, evan the worst motorcycle taxis application.				
810 Fraudster, my balance has been canceled and it hasn't been returned	Negatif			
811 Grab's features are useful, but prices are sometimes difficult to predict depending on traffic conditions	Netral Positif			
812 Trusted safe and comfortable online transportation subscription, Thank you 813 good application	Positif			
8.14 the costs are getting more expensive	Negatif Positif			
815 This application is really great ♥\ 816 From transportation to food delivery, Grab provides a complete service that makes things easy	Positif			
sto From transportation to tood earlierly, trans promotes a complete service that makes trangs easy \$17 That's great, hopefully there will be lots of promotions	Positif			
st./ Inars great, nopermy mere will be lots or promotions stills great, every helpful	Positif			
813 great, very neiphu 819 I am very disappointed with the Grab Car driver service because every time I choose the economical Grab option, no one wants to take it because the point is too far and there is a t				
	Positif			
really cool, lots of promotions				

1200 Attractive promotions, but the numbers are increasingly rare	Netral	
1201 The GrabRewards loyalty program is very profitable, lots of attractive discounts	Positif	
1202 Some GrabFood drivers don't seem to understand the delivery area	Negatif Positif	
1203 Happy to be part of Grab, cheap, safe and comfortable 1204 Very satisfied using Grab	Positif	
1205 very friendly and steady, safe and secure trip	Positif	
tank God it went smoothly	Positif	
1207 Grab is comfortable and safe	Positif	
1208 Actually, this application is good for ordering food, but when using the GrabCar application, I was disappointed because if I ordered GrabCar twice, I was charged another fee of 10k e 1209 the best thing is to grab it	Netral Positif	
1200 confortable	Positif	
1211 GrabFood is quite fast, although there are occasional errors in orders	Positif	
1212 It's really bad, wait a minute, I'll update again	Negatif	
1213] It makes it easier for us to travel anywhere and the costs are cheap 1214 Very helpful in daily operations	Positif Positif	
1215 excellent art camy operations	Positif	
1216 Security at Grab is very good, I feel comfortable when traveling	Positif	
1217 very satisfied with the service	Positif	
1218 Time estimates given by applications are often unrealistic	Negatif	
1219 Postage is rarely available and often not available, which is disappointing	Negatif	
1220 really cheap, lots of promotions	Negatif	
2001 Grab is the solution when the vehicle is damaged 2002 It's hard to get a grab car The grab car driver is not clear	Positif Negatif	
2003 Fast and friendly service, drivers are always on time	Positif	
2004 driver on time thank you grab it	Positif	
2005 Grab is always my mainstay when I'm in a hurry, it's fast, practical and comfortable	Positif	
2006 Like the wrong pick-up point even though I often use this application. Please fix it again, don't bother both parties, both the ordering and the person being ordered.	Netral	
2007 Maaantaaabbb and OK	Positif	
2008 The app is often slow, especially when I'm in a hurry to order 2009 Grab is quite helpful, but I think there are still many things that could be improved	Negatif Netral	
2010 Hove how the drivers are always friendly and make sure the trip is enjoyable	Positif	
2011 GrabCar prices are getting more expensive day by day, so they are no longer affordable	Negatif	
2012 <mark>fast, safe, comfortable, thank you grab</mark>	Positif	
2013 Thank you Grab - Taxi & Food for your participation in providing many conveniences to the community in the field of transportation and services for food orders and so on.	Positif	
2014 Trips with Grab are usually smooth, although there are occasional technical problems 2015 very recommended	Netral Positif	$ \square$
2016 The service is really bad, and can't solve customer problems	Negatif	
2017 Thank you for always having time to help	Positif	
2018 Thank you, I hope you always have trust	Positif	
2019 The postage is very expensive even though the distance is not even lkm	Negatif	
2020] The application is good, makes it easier for DRIVER, it is GOOD and very useful, continued success for GRAB 2021 friendly driver	Positif Positif	
	T CSAM	
	lat us	
	Negatif Negatif	
	Netral	
	Positif	
2504 The application is cool	Positif	
2505 the delivery is quite good, quite ok baaaaangeet	Positif	
2506 lots of promos, this application is really really helpful 2507 Thank you for delivering to your destination safely, grab	Positif Positif	
200 Graboar is really helpful, and lots of promos	Positif	
2509 Very Good Application-based transportation service that makes daily travel easier. Hopefully in the future it will be better & the bug problem can be fixed. Thank you	Positif	
2510 Good service but not pocket friendly like similar applications	Netral	
2511 very good	Positif	
2512 Great, grab it on time (a) 2513 The most complicated application	Positif Negatif	
2514 The struce is very satisfying and does not disappoint	Positif	
2515 thank you grab my trip was satisfying in Bali.	Positif	
2516 very helpful in traveling when we are busy	Positif	
2517 very helpful 2518 amazing 🐌	Positif	H
2518 amazing (#) 2519 I was disappointed when the food arrived cold	Positif Negatif	
233 I was unsappointed when me tood arrived cond 2520 always lots of great discounts, grab it	Positif	
		-11-1
2980 The promotions offered are attractive, although they cannot always be used directly	LOSIM	
2580 The promotions offered are attractive, authoright they cannot always be used directly		
	Netral	
2981 Very helpful application, good luck with GRAB 2982 I am satisfied with the accuracy of the pick-up location, very practical		
2981 Very helpful application, good luck with GRAB	Netral Positif	
Very helpful application, good luck with GRAB 2982 I am satisfied with the accuracy of the pick-up location, very practical 2983 The Grab application often sends promo notifications that are actually irrelevant 2984 GrabCar is comfortable, but sometimes the condition of the driver's car is not clean	Netral Positif Positif Negatif Netral	
Very helpful application, good tuck with GRAB 2981 T am satisfied with the accuracy of the pick-up location, very practical 2983 The Grab application often sends promo notifications that are actually irrelevant 2984 Grab Car is comfortable, but sometimes the condition of the driver's car is not clean 2985 Grab makes it easier to explore new cities without having to worry about getting lost	Netral Positif Positif Negatif Negatif Netral Positif	
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Very helpful application, good tuck with GRAB 2981 T am satisfied with the accuracy of the pick-up location, very practical 2983 The Grab application often sends promo notifications that are actually irrelevant 2984 Grab Car is comfortable, but sometimes the condition of the driver's car is not clean 2985 Grab makes it easier to explore new cities without having to worry about getting lost	Netral Positif Positif Negatif Negatif Netral Positif	
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Very helpful application, good luck with GRAB 2982 I am satisfied with the accuracy of the pick-up location, very practical 2983 The Grab application often sends promo notifications that are actually irrelevant 2984 Grab Car is comfortable, but sometimes the condition of the driver's car is not clean 2985 Grab makes it easier to explore new cities without having to worry about getting lost 2986 grab it of, more promotions, thank you 2987 Now it's easy to go anywhere without worrying because there are practical drivers, just order online 2988 Customer service took a long time to respond to my complaint 2989 Tank you for making our journey home easier 2990 I like Grab because it's practical, but drivers often have difficulty finding my location	Netral Positif Nogatif Negatif Netral Positif Positif Positif Positif Positif Positif Negatif Negatif Netral	
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Very helpful application, good luck with GRAB 2821 I am satisfied with the accuracy of the pick-up location, very practical 2822 I am satisfied with the accuracy of the pick-up location, very practical 2823 The Grab application of then sends promo notifications that are actually irrelevant 2824 Grab Car is comfortable, but sometimes the condition of the driver's car is not clean 2825 Grab makes it easier to explore new cities without having to worry about getting lost 2826 grab it ok, more promotions, thank you 2827 Now it's easy to go anywhere without worrying because there are practical drivers, just order online 2828 Customer service took a long time to respond to my complaint 2829 Tank, you for making our journey home easier 2829 I like Grab because it's practical, but drivers often have difficulty finding my location 2829 (Grab is one of the easiest applications and really helps with daily activities, I hope you always run smoothly and stay healthy, the best grab is the best and recommended (Completed Carbon Completed Carbon Carbon Completed Carbon Carbon Completed Carbon Comple	Netral Positif Positif Negatif Netral Positif Positif Positif Positif Positif Positif Negatif Netral Positif Netral Positif Netral Positif	
Very helpful application, good luck with GRAB 2982 I am satisfied with the accuracy of the pick-up location, very practical 2983 The Grab application often sends promo notifications that are actually irrelevant 2984 Grab Car is comfortable, but sometimes the condition of the driver's car is not clean 2985 Grab makes it easier to explore new cities without having to worry about getting lost 2986 grab it ok, more promotions, thank you 2987 Now it's easy to go anywhere without worrying because there are practical drivers, just order online 2988 Customer service took a long time to respond to my complaint 2989 Thank you for making our journey home easier 2990 Like Grab because it's practical, but drivers often have difficulty finding my location 2991 Grab is one of the easiest applications and really helps with daily activities, I hope you always run smoothly and stay healthy, the best grab is the best and recommended 2992 State Carab Express arrived late, making it a hassle 2995 Once I was charged an additional fee that didn't match the estimate in the application, it made me emotional 2996 Wy order via Grab Express arrived late, making it a hassle 2997 Thank you Grab because Grab allows me to go home from school 2998 Like to grab very affordable travel costs	Netral Positif Positif Negatif Netral Positif Positif Positif Positif Positif Negatif Negatif Positif Positif Positif Positif Positif Negatif Positif Negatif Positif Positif Positif Negatif Positif Positif Positif Positif	
Very helpful application, good luck with GRAB 2982 I am satisfied with the accuracy of the pick-up location, very practical 2984 Grab Application of then sends promo notifications that are actually irrelevant 2985 Grab wakes it easier to explore new cities without having to worry about getting lost 2986 grab it ok, more promotions, thank you 2987 Now if s easy to go anywhere without worrying because there are practical drivers, just order online 2988 Customer service took a long time to respond to my complaint 2980 I like Grab because it's practical, but drivers often have difficulty finding my location 2991 Grab is one of the easiest applications and really helps with daily activities, I hope you always run smoothly and stay healthy, the best grab is the best and recommended in the proposition of the Grab Rewards service, the points can be exchanged for attractive promotions 2992 I like the GrabRewards service, the spoints can be exchanged for attractive promotions 2993 I like the GrabRewards service, the spoints can be exchanged for attractive promotions 2994 Satisfactory service, fast response, accurate location, basically great 2995 Once I was charged an additional fee that didn't match the estimate in the application, it made me emotional 2996 My order via GrabExpress arrived late, making it a hassle 2997 Thank you Grab because Grab allows me to go home from school	Netral Positif Positif Negatif Netral Positif Positif Positif Positif Positif Positif Negatif Netral Positif Netral Positif Netral Positif	

3.Hasil Prediksi

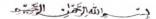
TEKS ASLI	TEKS DIPROSES	LABEL ASLI	PREDIKSI VADER	PREDIKSI SVN
grab help travel	grab help travel	Positif	Positif	Positif
grab make flexibl travel without arrang public transport schedul	grab make flexibl travel without arrang public transport schedul	Positif	Netral	Positif
order grabcar driver came vehicl suitabl	order grabcar driver came vehicl suitabl	Negatif	Netral	Positif
realli good want leav hous use grab food	realli good want leav hou use grab food	Positif	Positif	Positif
grab good unfortun expens	grab good unfortun expen	Netral	Positif	Positif
driver less friendli reluct follow direct	driver less friendli reluct follow direct	Negatif	Netral	Negatif
thank grab	thank grab	Positif	Positif	Positif
realli good want leav hous use grab food	realli good want leav hou use grab food	Positif	Positif	Positif
good help	good help	Positif	Positif	Positif
disappointingli grab often expens	disappointingli grab often expen	Negatif	Netral	Negatif
time driver friendli	time driver friendli	Positif	Netral	Positif
thank make easier travel	thank make easier travel	Positif	Positif	Positif
	ARREST CO.	Positif	Netral	Positif
disappointingli voucher often disappear order never arriv	disappointingli voucher often disappear order never arriv	Negatif	Negatif	Negatif
cool grab get	cool grab get	Positif	Positif	Positif
good expens	good expen	Netral	Positif	Positif
make easi especi sick hard grab lot promo	make easi especi sick hard grab lot promo	Positif	Negatif	Positif
driver friendli nice	driver friendli nice	Positif	Positif	Positif
		Positif	Positif	Positif
driver good enough cooper wait	driver good enough cooper wait			
good easi simpl use	good easi simpl use	Positif	Positif	Positif
help	help	Positif	Positif	Positif
		les see	la	
	ud applic account suddenli block hinder work could order car food block suddenli		Negatif	Negatif
meanwhil servic good	meanwhil servic good	Positif	Positif	Positif
sometim applic error difficult order	sometim applic error difficult order	Negatif	Negatif	Negatif
apk good accur	apk good accur	Positif	Positif	Positif
nicessss	nicessss	Positif	Netral	Positif
thank grab	thank grab	Positif	Positif	Positif
delet applic expens use pay 12000 17000 realli far away	delet applic expen use pay 12000 17000 realli far away	Negatif	Negatif	Negatif
far comfort safe use grab good job	far comfort safe use grab good job	Positif	Positif	Positif
pretti good	pretti good	Netral	Positif	Netral
bad	bad			
		Negatif	Negatif	Negatif
help	help	Positif	Positif	Positif
updat grab app get wors get	updat grab app get wor get	Negatif	Netral	Negatif
applic quit good sometim technic problem	applic quit good sometim technic problem	Netral	Positif	Netral
respons fast steadi	respon fast steadi	Positif	Netral	Positif
bad applic 4x food order cancel fund lost	bad applic 4x food order cancel fund lost	Negatif	Negatif	Negatif
good servic	good servic	Positif	Positif	Positif
applic good sometim want search place copi googl map work sometim	bi applic good sometim want search place copi googl map work sometim bit shar	n Netral	Netral	Netral
price offer competit right pocket	price offer competit right pocket	Positif	Netral	Positif
wait time long especi peak hour	wait time long especi peak hour	Negatif	Netral	Negatif
	n far grab still satisfactori driver motorbik order applic suitabl still better motor		Positif	Negatif
			Positif	
good	good	Positif		Positif
practic transport servic price increas drastic	practic transport servic price increa drastic	Netral	Netral	Positif
		last surf		
sever occas driver follow app suggest rout	sever occa driver follow app suggest rout	Negatif	Netral	Negatif
grab servic quit stabl sever time experienc annoy technic problem	grab servic quit stabl sever time experienc annoy technic problem	Netral	Negatif	Netral
grab applic provid fun quick understand experi	grab applic provid fun quick understand experi	Positif	Positif	Positif
great everyth	great everyth	Positif	Positif	Positif
locat suitabl realli far home disappoint	locat suitabl realli far home disappoint	Negatif	Negatif	Negatif
sometim ca access	sometim ca access	Negatif	Netral	Negatif
good job thx	good job thx	Positif	Positif	Positif
qualiti grab custom servic still improv often take long time get answer		Negatif	Netral	Negatif
	k rotten applic debit card payment fund cancel order held quit long time kind se		Negatif	Negatif
	er worst motorcycl taxi applic map clear updat year problem continu driver say p		Negatif	Negatif
fraudster balanc cancel return	fraudster balanc cancel return			Negatif
		Negatif Netral	Negatif	Negatii
grab featur use price sometim difficult predict depend traffic condit	grab featur use price sometim difficult predict depend traffic condit		Negatif	
trust safe comfort onlin transport subscript thank	trust safe comfort onlin transport subscript thank	Positif	Positif	Positif
good applic	good applic	Positif	Positif	Positif
cost get expens	cost get expen	Negatif	Netral	Negatif
applic realli great	applic realli great	Positif	Positif	Positif
transport food deliveri grab provid complet servic make thing easi	transport food deliveri grab provid complet servic make thing easi	Positif	Netral	Positif
great hope lot promot	great hope lot promot	Positif	Positif	Positif
great help	great help	Positif	Positif	Positif
0				Negatif
disappoint grab car driver servic everitime choos econom grab ontion				
			Negatif	_
9 disappoint grab car driver servic everi time choos econom grab option 0 realli cool lot promot 1 make transport easier	or disappoint grab car driver servic everi time choo econom grab option one war realli cool lot promot make transport easier	Positif Positif	Positif Positif	Positif Positif

		Positif Negatif	Positif Negatif	Negatif
applic bad way enter realli complic				
02 satisfi		Positif	Netral	Positif
03 app help	app help	Positif	Positif	Positif
04 cool	cool	Positif	Positif	Positif
05 great applic	great applic	Positif	Positif	Positif
	·			
06 easi cheap realli best		Positif	Positif	Positif
good arriv quickli	-	Positif	Positif	Positif
08 help	help	Positif	Positif	Positif
9 peopl kind friendli	peopl kind friendli	Positif	Positif	Positif
10 applic realli good also choos menu order food		Positif	Positif	Positif
11 pretti good		Positif	Positif	Netral
12 time	time	Positif	Netral	Positif
13 good highli recommend applic	good highli recommend applic	Positif	Positif	Positif
14 help	help	Positif	Positif	Positif
L5 satisfi		Positif	Netral	Positif
16 help		Positif	Positif	Positif
17 use like know address	use like know address	Positif	Positif	Positif
18 simpl cheap fast	simpl cheap fast	Positif	Netral	Positif
19 good	good	Positif	Positif	Positif
20 applic help activ incident often need transport		Positif	Positif	Positif
21 satisfi servic thank		Positif	Positif	Positif
ELISAUSTI SELVIC CHAIR	Satisfi Servic Charic	FOSILII	FOSILII	Fositii
			les e e	
00 use		Positif	Netral	Positif
1 satisfi	satisfi	Positif	Netral	Positif
)2 help	help	Positif	Positif	Positif
33 quit help	·	Positif	Positif	Positif
04 grab realli help make thing easier want snack night	0 0	Positif	Positif	Positif
D5 bad servic		Positif	Negatif	Negatif
06 thank	thank	Positif	Positif	Positif
77 fast trustworthi servic		Positif	Netral	Positif
		Positif	Positif	Positif
08 good				
9 want go faster	want go faster	Positif	Positif	Positif
10 applic clear even though never log grab applic tpi ca log use number say	applic clear even though never log grab applic tpi ca log use number say sorri a	Negatif	Positif	Negatif
11 ok grab servic urgent time realli help good	ok grab servic urgent time realli help good	Positif	Positif	Positif
12 thank help		Positif	Positif	Positif
13 help		Positif	Positif	Positif
14 far still believ use grab faster servic good	far still believ use grab faster servic good	Positif	Positif	Positif
15 satisfi gojek applic	satisfi gojek applic	Positif	Netral	Positif
16 fast accord expect joss		Positif	Netral	Positif
		Positif	Positif	Positif
17 help				
18 grab easi comfort easi		Positif	Positif	Positif
19 everi time go anywher definit use grab cheap lot discount		Positif	Netral	Positif
20 good servic	good servic	Positif	Positif	Positif
21 use grab faster effect		Positif	Netral	Positif
00 grab solut vehicl damag	grab solut vehicl damag	Positif	Netral	Positif
01 hard get grab car grab car driver clear		Negatif	Positif	Negatif
nard get grab car grab car driver crear				
00 (16: 11: 1-1: 1-1: 1-1:				Positif
		Positif	Netral	
03 driver time thank grab	driver time thank grab	Positif	Positif	Positif
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