

Title	Year	Dataset	Methods/Algorithms	Classifier	Accuracy	Limitations
Overall and Feature Level Sentiment Analysis of Amazon Product Reviews Using Machine Learning Techniques and Web-Based Chrome Plugin	2022	products on Amazon, including 142.8 million reviews	These models comprise not only conventional algorithms such as Random Forest, Multinomial Naïve Bayes, Complement Naïve Bayes, Bernoulli Naïve Bayes, but also VADER Sentiment Analysis.	Random Forest Classifier with TF-IDF Vectorizer	NA	Difficulty in teaching computers to grasp sarcasm, potential improvements with BERT for higher accuracy
Research on Sentiment Analysis and Personalized Recommendation Based on Agricultural Product Reviews	2023	Online reviews of Shenyong Songhua Egg from the shopping platform Jingdong	BERT model for sentiment analysis, word frequency analysis, and word cloud drawing	BERT emotion model	Not specified in the provided context	
A Scalable Approach for Sentiment Analysis of	2016	6000 manually labeled Turkish tweets	Naive Bayes, Complementary Naive Bayes, Logistic Regression	Complementary Naive Bayes	79.38	Lower accuracy in mapping tweets to news items (40.3%), challenges with Turkish language

Turkish Tweets and Linking Tweets to News						complexity, and potential overfitting with bigram and trigram models.
conference paper, Eighth International Conference on Social Network Analysis, Management and Security (SNAM S)	2022	IMDB dataset which consists of 50 thousand movie reviews (25 thousand positive reviews and 25 thousand negative reviews)	Machine Learning Classifiers, Ensemble Method, Data Preprocessing Techniques, Vectorization Technique	Logistic Regression (LR) Naïve Bayes (NB) XGBoost (XGB) Random Forest (RF) Multilayer Perceptron (MLP)	89.9%	demonstrating superior performance compared to individual classifiers and existing methods.
Sentiment Analysis in Social Media and Its Application	2019	Twitter Data, Instagram Data, Facebook Data, Reddit Data	Lexicon-Based Methods, Machine Learning-Based Methods, Preprocessing Methods, Ensemble Methods	Probabilistic Models, Text Representation Techniques, Ensemble Methods	85%	while accuracy provides a broad measure of effectiveness, it can be misleading in cases of class imbalance or when the dataset contains complex, informal language.
Sentiment analysis using product review data	2015	the dataset used in the study by Fang and Zhan consists	source machine learning software package in Python. The classification models selected for categorization are: Naïve Bayesian, Random	Support Vector Machine, Random Forest Classifier: Bayes' theorem, assuming	85%	Random Forest is the most effective classifier for sentiment polarity categorization, with future work needed to

		of over 5.1 million product reviews collected from Amazon.com. ,Over 5.1 million Amazon product reviews.	Forest, and Support Vector Machine	independence between features		address review-level classification challenges and implicit sentiment detection.
Social Media Sentiment Analysis	2021	Twitter Data,instagram Data,Facebook Data,Reddit Data	NumPy,pandas,Matplotlib,seaborn,NLTK	Logistic Regression, Bernoulli Naïve Bayes,Random Forest Regression, multinomial Naïve Bayes classifier	88.90 %	This can be used with a graphic interface to deliver the same results with
journal paper published in the "International Journal of Research in Circuits,	2024	Amazon Musical Instruments Reviews Dataset, which is available on Kaggle. The dataset contains 10,262 rows and 9 columns	Convolutional Neural Network (CNN),Natural Language Processing (NLP) with SpaCy,Data Preprocessing,Data Visualization,Evaluation Metrics	TextCategorizer component from the SpaCy NLP library....This component is integrated with a Convolutional Neural Network (CNN), which classifies the review text into positive or	94%	Class Imbalance,Overfitting,Limited Dataset Size,Simple Binary Classification

				negative sentiment.		
Sentimental Analysis of Twitter Users from Turkish Content with Natural Language Processing	2022	public dataset from Beyaz (2021), Custom Dataset (SentimentSet) : Researchers manually created this dataset by collecting Turkish tweets	Natural Language Processing (NLP) techniques for sentiment analysis.	Zemberek and NLTK Snowball	87%	1.Turkish Language Nuances 2.Agglutinative Nature
A feature fusion and detection approach using deep learning for sentimental analysis and offensive text detection from code-mix Malayalam language	2024	dataset for three under-resourced Dravidian languages (Tamil, Kannada, and Malayalam) generated from social media comments. The dataset contains more	1.ALBERT Tokenization 2.Feature Extraction 3.Feature Fusion 4.Sentimental Analysis and Offensive Text Identification:	To design an approach for sentiment analysis and offensive text detection from a code-mix language using HAN.	accuracy attained by the proposed model is 0.956	Offensive text detection include handling noisy data, language variations, and context ambiguity

		than 60,000				
Sentimental analysis of Facebook reviews: Does hospitality matter in senior living?	2023	the official Facebook pages of 125 senior living communities in the U.S. These communities were not randomly selected; they represented leading companies in the U.S. senior living industry.	1. text mining and 2. sentiment analysis techniques to extract insights.	techniques, including: 1. Multivariate Linear Regression 2. Random Forest 3. Support Vector Machine Regression	Operate nearly 75% of professionally managed communities in the industry (Argentum, 2021).	Generalizability: The study's findings should not be generalized widely due to self-selection bias in Facebook reviews. Some individuals without internet access or awareness of Facebook reviews may be excluded Comparative Analysis
Journal of Information Processing and Management	2023	IMDb Movie Reviews dataset	Long Short-Term Memory (LSTM) networks	LSTM-based	87%	Limited to English language reviews, does not perform well with short texts.