

# **Project Title: AI Tweet Sentiment Analysis using NLP**

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This project focuses on analyzing public sentiments expressed in tweets using Natural Language Processing (NLP). By collecting and cleaning Twitter data, the system classifies tweets as positive, negative, or neutral based on sentiment polarity. The model leverages text preprocessing, tokenization, and machine learning algorithms for classification. It helps in understanding public opinions on various topics and can be applied in marketing, politics, and social research domains.

Technologies Used: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, WordCloud, NLP Techniques.

This project demonstrates how AI and NLP can effectively analyze human emotions hidden behind text, providing valuable insights for decision-making and trend analysis.