

# Sentiment Analysis of Social Media Posts

## Introduction

Social media is full of people's emotions—happiness, anger, frustration, or excitement. This project aims to build a simple Machine Learning model that can understand whether a social media post is Positive or Negative.

## Objective

- Understand how ML works with text
- Convert text into numerical form
- Train a sentiment prediction model
- Test model accuracy
- Demonstrate real-world application

## Tools Used

- Python
- Scikit-Learn
- TF-IDF Vectorizer
- Logistic Regression

## How It Works

1. Collect sample posts
2. Convert text to numbers
3. Split into training/testing
4. Train Logistic Regression model
5. Predict new post sentiment

## Project Structure

Sentiment-Analysis-ML/

|— README.md

|— sentiment\_analysis.py

|— dataset.txt

|— requirements.txt

Python Code (Short Version)

See Python file in repository.

Output

The model displays accuracy and predicts whether a new post is Positive or Negative.

References

- Scikit-Learn Documentation
- Stanford NLP Notes
- Andrew Ng ML Course (Coursera)
- Introduction to Machine Learning with Python

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