

# SmartTrendAI - Project Report

Title: AI-Powered Market Trend Analyzer (Stable)

Submitted by: Pankaj Gupta

Aim:

Build a system that analyzes online text (tweets, news, reviews) to detect trending topics and sentiment for marketing insights.

Tools:

Python, NLTK, VADER, scikit-learn, matplotlib, streamlit

Workflow:

Data collection -> Preprocessing -> Sentiment analysis -> Trend detection -> Visualization

How to run:

**SmartTrendAI + Project Report**

1. Python demo: python src/main.py
2. Console demo: python src/main.py
3. Web app: streamlit run app.py

Notes:

This build includes automatic NLTK downloads in preprocessing to avoid LookupError on fresh environments.