# README - Real-Time Sentiment Detection from Google User Feedback

## 1. Project Overview

This project detects real-time sentiment from Google user feedback using a Streamlit dashboard. It processes reviews, classifies them as Positive, Negative, or Neutral, and provides visual insights using graphs, pie charts, and word clouds.

## 2. Features

- Real-time review analysis from Google Sheets API  
- Sentiment classification using VADER (NLTK)  
- Emoji-based sentiment support  
- Pie charts and trend graphs  
- Auto-refresh and alert system

## 3. Technologies Used

- Python  
- Streamlit  
- Pandas, NumPy  
- NLTK (VADER)  
- Google Sheets API  
- Matplotlib, Altair

## 4. Installation

Install required libraries with:  
`pip install -r requirements.txt`

## 5. Running the App

Use the command:  
`python -m streamlit run app.py`

## 6. File Structure

- app.py: Main application file  
- requirements.txt: List of Python libraries  
- client\_secret.json: Google Sheets credentials

## 7. Future Scope

- Add ML models like BERT for advanced sentiment detection  
- Deploy on platforms like Heroku or Streamlit Cloud  
- Add user authentication and role management

## 8. Author

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