

C.E.L.T: The Sentimental Analyzer

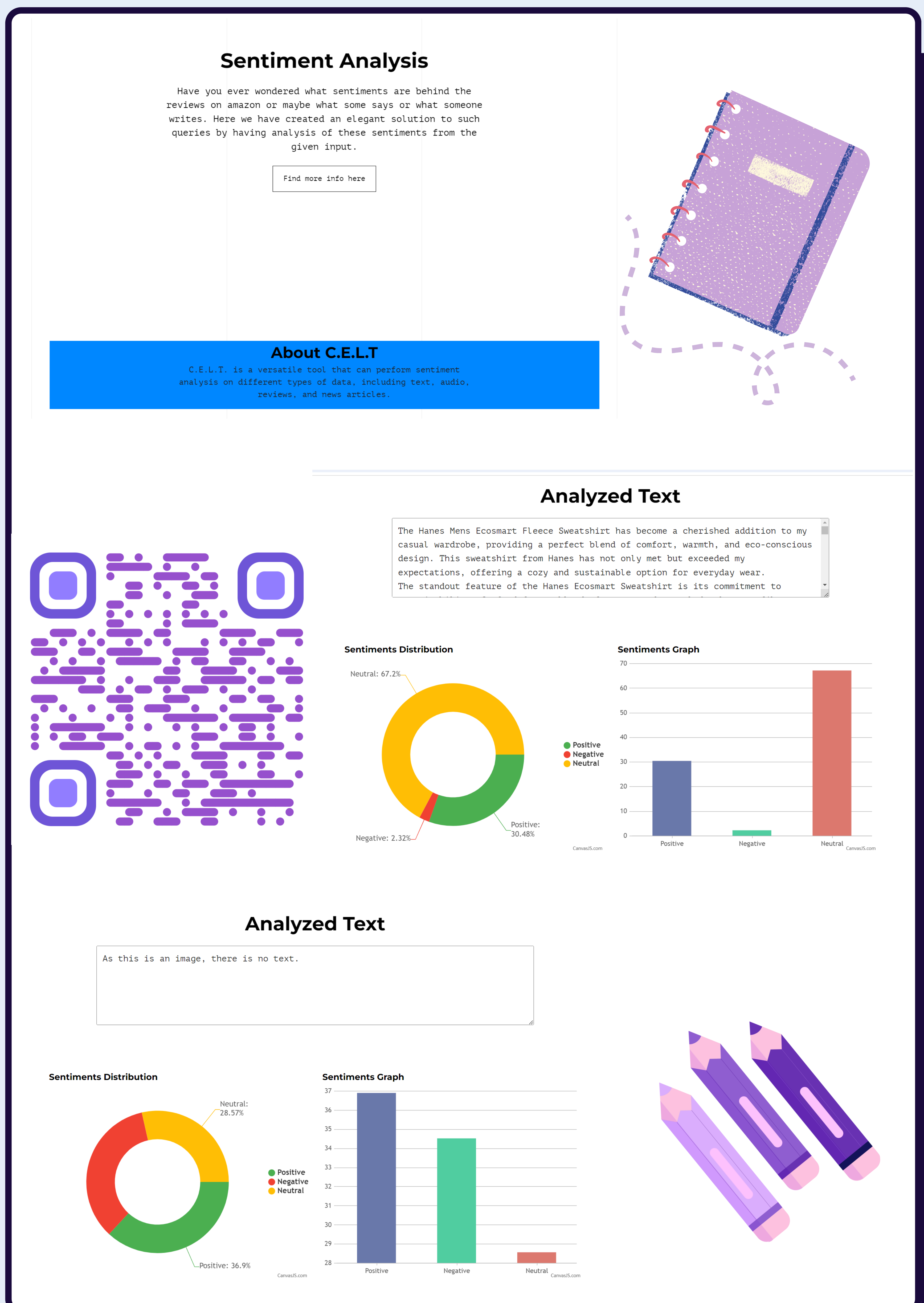
A versatile tool for multi-input sentiment analysis.

Selling Points

- **Sentiment Analysis:** C.E.L.T. utilizes advanced algorithms to analyze sentiment from various data sources like text, audio, and news. This process helps identify whether the sentiment is positive, negative, or neutral.
- **Multichannel Data Integration:** C.E.L.T. supports analyzing data from social media, reviews, and news articles, offering a holistic view of public sentiment.
- **Customizable Insights:** The tool allows users to tailor the analysis based on specific requirements, providing detailed and relevant insights across different channels.
- **Comprehensive Sentiment Analysis:** By analyzing multiple forms of data, C.E.L.T. gives businesses, media outlets, and political organizations a deeper understanding of public sentiment.
- **Cost-Efficient Solution:** C.E.L.T. streamlines the process by offering a single tool that handles multiple data types, reducing the need for multiple specialized tools.

Future Milestones

- **Implement User Authentication:** Enable personalized user accounts with authentication, allowing each user to log in, securely store their preferences, and keep track of their sentiment analysis history for future reference.
- **Implementation Plan:**
 - Set up Django's authentication system to manage user sign-up, login, and logout functionalities.
 - Create user profiles that store personalized preferences and sentiment history.
 - Add security measures such as 2FA for account protection and ensure data compliance.
 - Timeline: 1 weeks for initial setup, 2 weeks for advanced security features.
- **User Ratings:** Integrate a more comprehensive analysis by including not only sentiment data but also the total number of user ratings, offering deeper insights into product popularity and customer satisfaction trends.
- **Implementation Plan:**
 - Adjust the product sentiment model to factor in the number and score of user ratings.
 - Implement a system for collecting user ratings and integrate them into the sentiment analysis.
 - Visualize these combined results with charts to highlight product popularity trends.
 - Timeline: 3-4 weeks for full integration and visualization.
- **Extend Features:** Expand the application's capabilities to include sentiment analysis for posts on major social media platforms, allowing users to gain insights from a broader range of public opinions across multiple sources, such as Facebook, LinkedIn posts.
- **Implementation Plan:**
 - Integrate APIs from Facebook and LinkedIn to gather posts for analysis.
 - Optimize the sentiment model to handle real-time social media data.
 - Develop a unified dashboard to present multi-platform sentiment trends in a single view.
 - Timeline: 3-4 weeks for API integration, sentiment model adjustments, and dashboard creation.



Test Cases

test_text_analysis
test_product_analysis
test_document_analysis
test_speech_to_text
test_sentiment_analyzer_scores
test_imageanalysis
test_news_analysis
test_file_analysis
test_live_audio_analysis
test_unsuccessful_http_request
test_get_request

Tech Stack

Python3
Django
HTML
CSS
JavaScript
Scrapy
Vader Analysis Tool

C.E.L.T. is a versatile tool designed to perform sentiment analysis on various types of data, including text, audio, reviews, and news articles. Sentiment analysis is a rapidly growing area of research in computer science, which makes it difficult to keep track of all the advancements in the field. This project aims to accurately predict user sentiment by analyzing different types of input data.