

Problem Statement

Intel Products Sentiment Analysis from Online Reviews



Unique Idea Brief

This sentiment analysis project is all about changing the way we look at customer feedback by pulling reviews from different e-commerce and social media sites. Using advanced web scraping and APIs, we'll collect a ton of data on what people think about products. We'll use top-notch NLP techniques, like BERT, to dive deep into these sentiments and get detailed insights. The project will include real-time sentiment tracking and aspect-based analysis to spot key strengths and weaknesses in products. With interactive dashboards and comprehensive reports, businesses will get actionable insights to boost customer satisfaction and make smarter, data-driven decisions.

Features Offered

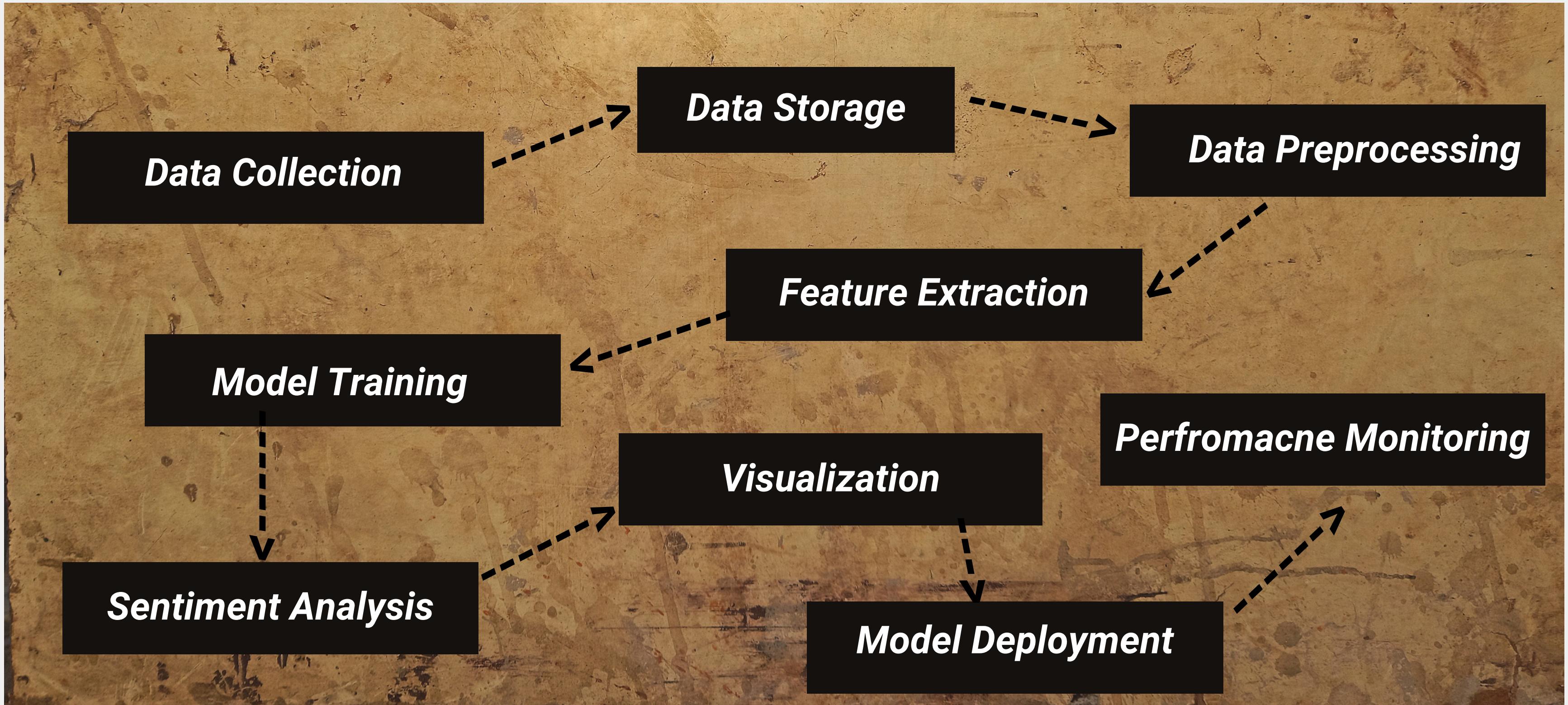
- *Text Preprocessing*
- *Sentiment Detection*
- *Advanced NLP Techniques*
- *Sentiment Visualization*
- *Machine Learning Modules*
- *Data Management*
- *Performance Optimization*

Process Flow

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- A background photograph shows two individuals in professional attire (a man in a suit and a woman in a white blouse) working at a desk. The man is in the foreground, looking down at a laptop keyboard. The woman is partially visible behind him, also focused on her work. The scene is set in an office environment with papers and documents scattered on the desk.
- Data Collection*
 - Data Storage*
 - Data Preprocessing*
 - Feature Extraction*
 - Model Training*
 - Sentiment Analysis*
 - Performance Monitoring*



Architecture Diagram



Technologies Used

- **Data Storage** : BeautifulSoup,Requests
- **Data Preprocessing** : NLTK,re
- **Feature Extraction** : Scikit-Learn
- **Model Training** : Scikit-Learn,TensorFlow
- **Sentiment Analysis** : TextBlob
- **Visualization** : Matplotlib,Plotly

Team Members and Contribution

In teamwork, we envision; in teamwork, we achieve.

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Exploratory data analysis, Clustering and affinity analysis

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Data Pre-processing

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Sentiment Analysis, Feature and keyword extraction

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Data Collection & Web Scraping



Conclusion

The sentiment analysis project successfully extracted and analyzed Intel product reviews from websites. Using advanced NLP techniques, we achieved high sentiment classification accuracy. Real-time analysis, contextual insights, and interactive dashboards provided valuable feedback for product improvement and customer satisfaction. The project demonstrated the effectiveness of comprehensive sentiment analysis in driving informed business decisions.

Thank You

