

TITLE : INTEL PRODUCT SENTIMENT ANALYSIS FROM ONLINE REVIEW

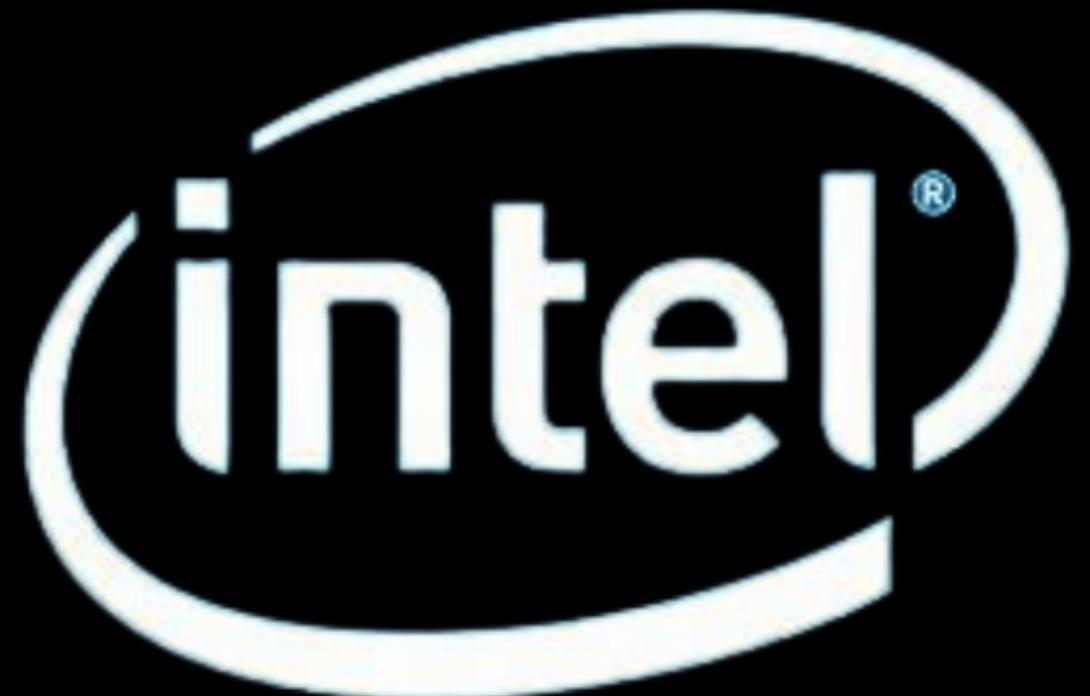
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PROBLEM STATEMENT

IDENTIFYING THE PROBLEM

- The growing volume of online reviews makes it challenging for Intel to manually analyze customer feedback.
- Current manual processes are time-consuming and prone to human error.
- Lack of structured insights from customer reviews hinders effective decision-making.

OUR INNOVATIVE SOLUTION



- **AI-Powered Sentiment Analysis:** Automatically categorizes and evaluates customer reviews for Intel products.
- **Actionable Insights:** Highlights trends and key sentiment drivers for better decision-making.
- **Enhanced Customer Understanding:** Provides a deeper understanding of customer opinions and preferences.

PROCESS FLOW

- **Data Collection :** Aggregating reviews from multiple online platforms.
- **Preprocessing:** Cleaning and organizing the data.
- **Sentiment Analysis:** Applying NLP algorithms to determine sentiment.
- **Result Integration:** Incorporating analysis results into dashboards and reports.
- **Feedback Loop:** Continuously improving the model based on new data.

PROCESS FLOW



input sentence

pre processing

word vector

aspect detection

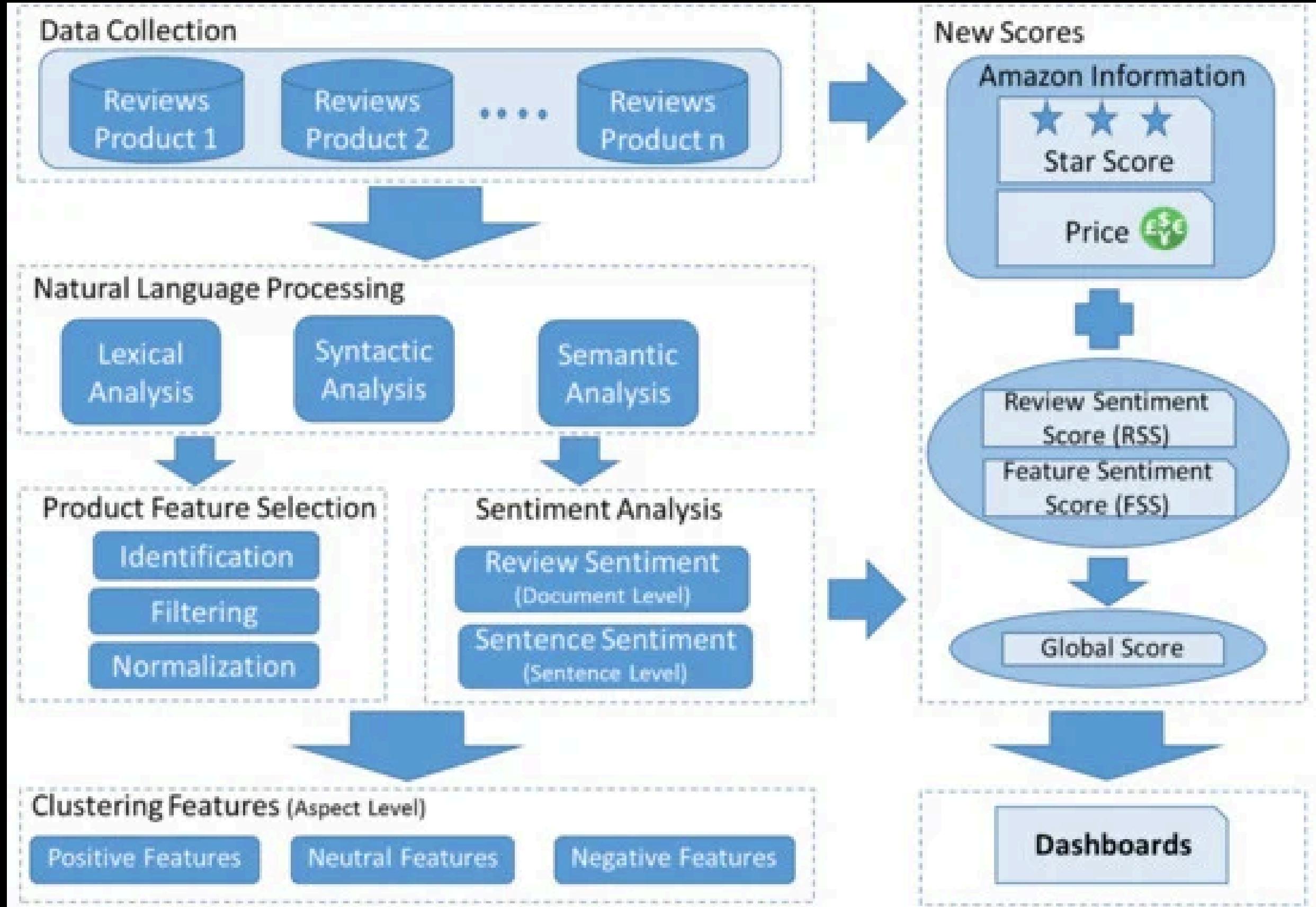
aspect sentiment

sentiment analysis

KEY FEATURES

- **Automated Sentiment Analysis :** Uses natural language processing (NLP) to assess review sentiments (positive, negative, neutral).
- **Real-time Data Processing :** Continuously updates with new reviews.
- **Detailed Reporting:** Generates comprehensive reports and visualizations.
- **Customizable Dashboards:** Tailored to different user roles and needs within Intel.
- **Alert System:** Notifies stakeholders about significant sentiment changes.

ARCHITECTURE DIAGRAM



TECHNOLOGIES USED

Technology Stack

- Data Collection: Web Scraping tools, APIs
- Preprocessing: Python, Pandas, NLTK, etc.
- Sentiment Analysis: Machine Learning frameworks (TensorFlow, PyTorch), NLP libraries (BERT, GPT)



CONCLUSION

The Intel Product Online Review Sentiment Analysis system simplifies and automates the process of understanding customer feedback from various platforms. By leveraging advanced NLP and ML techniques, Intel gains valuable insights to enhance product quality, improve customer satisfaction, and make informed business decisions. This system ensures efficiency, scalability, and continuous improvement, enabling Intel to respond effectively to customer needs and remain competitive in the market.

**"Intel products revolutionize the
online world, setting new
standards of innovation."**

THANK YOU !!