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Team Project: Amazon Product Review Sentiment Analysis

Current progress:

- Completed comprehensive research on NLP techniques and sentiment analysis approaches
- Focused on learning VADER sentiment analysis through NLTK documentation and tutorials
- Set up our development environment with the necessary Python libraries and tools
- Created our GitHub repository for version control
- Finalized our project scope and timeline
- Download and import the Amazon Electronics dataset
- **Finished data preprocessing:**
 - Clean the review text data
 - Handle missing values
 - Format timestamps
 - Remove duplicates if any

Week of 11/11/2024:

- Start coding and testing VADER sentiment analysis with the cleaned dataset.
- Make changes to data preprocessing if needed to improve results.
- Document initial results and note any important trends or issues.

Week of 11/18/2024:

- Finish up the sentiment analysis and check the results.
- Create visualizations like:
 - Stacked bar charts for sentiment distribution.
 - Word clouds for positive and negative reviews.
 - Line graphs for sentiment over time.
- Draft the project presentation with the main findings and visualizations.

Week of 11/25/2024:

- Finalize all visualizations and ensure they are clear and accurate.
- Finalize an outline for the presentation.
- Double-check and refine any remaining analysis to ensure consistency.

Week of 12/3/2024:

- Finish the presentation and practice speaking within the 10-minute limit.
- Make final edits to the presentation.
- Finish the report