PROBLEM STATEMENT 11:

Intel Products Sentiment Analysis from Online Reviews

Category: Artificial Intelligence, Machine Learning, Software Engineering

Participants: 1st-4th Semester Students

Prerequisites:

- Machine learning & Natural Language Programming
- Python Language
- ETL Knowledge

Dataset:

- https://cseweb.ucsd.edu/~jmcauley/datasets/amazon_v2/

  Students can use any other scrapping technique to pull latest data.

Students can extend the datasets from Twitter APIs, HotHardware, Tom'sHardware & Reddit

Description:

Intel Products are reviewed by end users and tech reviewers on various platforms.

Hence, the ask here is to scrap the reviews available on different sources in the last 3 - 5 years. Apply various exploratory data analysis, machine learning and natural programming techniques to find the sentiments of products, clustering of affinity reviews, trends of sentiments over period of time, features and key words extraction to specific sentiments, recommendation on key improvements based on users reviews for future products. Ensure sentiments and any other analysis is also demonstrated on different product category.

Outcomes:

- Share models and outputs for above expected use cases along with performance metrics of each model.
- Share the data source, train and test data set post completion of project.
- Key Summary and Recommendation slides based on analysis and model outcomes.
