

The task for this iteration is :

**Team :**

- Who are the members of your team? (If applicable) No more than 3 Students in each team: Yichen Zhang, Jinyu Li, Richard Chen
- What roles and responsibilities have you assigned to each member?
  - Jinyu Li: Data Visualization, AWS
  - Yichen Zhang: Front-end, SQL query
  - Richard Chen: Data preparation, Back-end

**Topic Selection:**

- What topic have you chosen for your final project?

**Building a Chatbot Recommendation System and Sentiment Analysis Model Using Amazon Product Reviews.**

**Note: Based on Kaggle's Amazon Product Review Dataset, contains 1200 unique data.**

- Why is this topic of interest to you and how is it relevant to your field of study?

We chose this topic because customer reviews and ratings are a rich source of real-world, unstructured data. This dataset is particularly exciting because it has both structured data (ratings, prices, categories) and unstructured text (reviews, product descriptions), making it ideal for applying a wide range of data analysis and machine learning techniques. Building a chatbot on this dataset demonstrates the ability to connect structured and unstructured data into a single, usable system while developing valuable skills in data engineering, NLP, and deploying interactive AI tools that surface insights from large-scale customer feedback.