

# Progress Report – CS 410, Fall 2021

**Team Name – RS4**

**Team Members –**

1. Rudranil Debroy – rdebroy2
2. Shaleen Mehrotra – shaleen3 **(Captain)**
3. Shruti Kalia – skalia2
4. Sujan Das – sujan2
5. Sreyashi Das – das25

**Project Topic – Free Topic – IntelliReco (An intelligent recommendation system)**

1. Progress made thus far
  - **Identified the data source to be used – Amazon Marketplace.**
  - **Crawling of some of the consumer product end URLs was done and text data was extracted from the source.**
  - **Designed the schema for storing data.**
  - **Text data stored in SQLite database to be used for different types of analysis and recommendations which are consumed from our front-end user interface.**
  - **We are in the process of building a single page React application to enable easy user interaction with the system.**
2. Remaining Tasks
  - We plan to complete crawling of 3 Categories of consumer products, viz. Computers and Accessories, TV and Video, and Photography and Videography.
  - We plan to include the first 50 Most Popular items in each Category.
  - If time permits, we might add more categories of consumer products and related items.
  - We are also planning to include Walmart online consumer product data.
  - Perform Data Cleaning steps, if necessary.
  - Recommendations based on search criteria.
  - Perform analysis using the Concepts read in the Classroom videos (Text mining, topic extraction, ranking, cosine similarity, classifiers, etc.) and perform efficient recommendations based on user-entered criteria.
  - To properly display search results.
  - Integration and Bootstrap of all the functionalities for a finished end-user product.
3. Any challenges/issues being faced
  - Faced some challenges with version mismatch of different libraries of python during our initial project setup.