

Document Title: **Recommendation System for E Commerce**

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Problem Statement

An e-commerce company wants to build a system to recommend products to users (like Amazon suggests).

Role and Responsibilities

1. **Data Engineer:** Builds the pipeline to collect, store, and process data needed for recommendations.

Responsibilities:

- Collect data from user clicks, purchases, views, etc.
- Set up databases and data warehouses.
- Clean and prepare raw data for use.

2. **Data Scientist:** Uses the cleaned data to build the recommendation model using machine learning.

Responsibilities:

- Analyze users behavior patterns
- Build the recommendation algorithms
- Train, test, and improve the model

3. **Data Analyst:** Provides insights and reports about user trends and how well the recommendation system is working.

Responsibilities:

- Analyze what products are frequently bought/viewed
- Track recommendation performance (click-through rate, conversion rate)
- Create dashboards and visualizations for decision-making

4. **AI Engineer:** Takes the trained recommendation model and deploys it into production so real users can see recommendations on the app or website.

Responsibilities:

- Convert the ML model into a scalable API or service
- Integrate it with the website/app.