**Application Area:** Recommendation Systems (with a focus on books/e-commerce).

**Task Description:** Prediction: Predict user ratings for books based on their past interactions and suggest books to users.

*Analysis:* Analyze user preferences and book features to generate personalized recommendations.

*Generation:* Generate a ranked list of book recommendations for each user.

**Type of Data:**

Structured CSV Data:

*Users Data:* Contains user demographics (User-ID, Location, Age).

*Ratings Data:* Contains user-book interactions (User-ID, ISBN, Book-Rating).

*Books Data:* Contains book metadata (ISBN, Book-Title, Book-Author, Year-Of-Publication, Publisher).

**Project Title:** Probabilistic Preference-based Publication Picker → P4