Assignment: Building Recommendation System.

Goal Overview

At Pratilipi, we refer to a story as a "pratilipi." You are tasked with building a predictive model to forecast which pratilipis (stories) a user is likely to read in the future, based on historical reading behavior data.

This will help to recommend relevant stories to users based on their past reading habits.

Objective

1. Predict Future Reading Behavior: Build a model to predict at least 5 pratilipis that each user will read in the future.
2. TrainTest Split: Use the first 75% of the dataset for training and evaluate the model on the remaining 25% of the data.
3. Deliverables:
   ● Codebase: well written python code, with a README file explaining how to run the code and any dependencies.
   ● Documentation: A detailed explanation of the Data Analysis, Training Process, Chosen Model.

Dataset Description

You will work with two datasets, which contain user interactions with pratilipis and meta information about the pratilipis:

   1. **User_interaction.csv - Drive Link**

This file contains data about user interactions with pratilipis.

Column	Description
user_id	The unique identifier of the user.
pratilipi_id	The unique identifier of the pratilipi (story).
read_percentage	The percentage of the pratilipi that the user has read (between 0 and 100).
updated_at	The timestamp when the interaction occurred.

Example

user_id	pratilipi_id	read_percentage	updated_at
1	101	70	2024-01-01 12:00:00
2	123	50	2024-01-01 12:43:00
3	532	100	2024-02-01 12:00:00

2. **Meta_data.csv - [Drive Link](#)**

This file contains meta information about pratilipis.

Column	Description
author_id	The unique identifier of the author of the pratilipi.
pratilipi_id	The unique identifier of the pratilipi.
category_name	The category to which the pratilipi belongs (e.g., Romance, Mystery). A single pratilipi can have multiple categories.
reading_time	The reading time in seconds for the pratilipi. (assuming 200 words takes 1 min to read)
updated_at	The timestamp when the meta data was last updated.
published_at	The timestamp when the pratilipi was first published.

Example:

author_id	pratilipi_id	category_name	reading_time	updated_at	published_at
1	133	Romance	20	2023-01-01 10:00:00	2022-01-01 12:00:00
2	525	Suspense	443	2024-01-02 0:00:00	2023-01-10 12:00:00
42	52522	Thriller	5315	2024-01-01 1:00:00	2024-01-01 12:00:00

Good luck with the assignment! Feel free to reach out if you need any further clarifications or guidance.