**Providing tig suggestions: the activities user can create on the platform-**

**can come up with item matrix using which user can create tig. E.g [‘pillow’,‘bottle’,‘mobile’,etc] and then using these items along with verbs, tigs that can be created can be recommended to users. Another option would be to use chatgpt like language model to provide suggestions for this.**

Create a machine learning model for task suggestion based on user information, item, and verbs without integrating ChatGPT or any conversational AI component.

1. Data Collection:

* User Information- age, gender, hobbies & specific interests, difficulty level preferred, (ADDITIONAL - constraints they may have (e.g., physical limitations, time constraints)).
* Item & Verbs/Actions- items and verbs that should represent the actions or activities that users can perform with the items.

1. Data Preprocessing:

* Transformation- tokenizing the text/encoding categorical features.
* Splitting

1. Model Training
2. Fine-tuning and Hyperparameter Optimization
3. Deployment
4. Evaluation – take user feedback after recommending a tig.

To create a large matrix of items, interests, and specific actions:

* Gather a comprehensive item database- range of items users may interact with or have an interest in.
* Define interest categories- various domains or topics such as sports, technology, arts, literature, cooking, etc.
* Create mappings between items and interest categories- associate each item with one or more interest categories.
* Determine a set of actions or verbs that can be performed with each item.
* Create a matrix with **rows representing the items**, **columns representing the interest categories**, and **cells containing the associated actions/verbs**.