

# Mini Project Proposal

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**AI Problem:** Create a non-generative AI system that will recommend movies or TV shows for users to watch based on their preferences and platform subscriptions (Netflix, Hulu, etc.). Integrate this model into a chat bot that can have a conversation to best recommend what to watch.

## Approaches:

- **Data Collection:** Use kaggle to download metadata or use open-source APIs to fetch data
- **Preprocessing:** Data is collected and preprocessed. This involves cleaning the data, handling missing values, and encoding categorical variables using a software library like pandas.
- **Building the Recommendation Model:** Use PyTorch or TensorFlow to build recommendation models, such as matrix factorization or neural network-based approaches like deep learning models.
- **Training the Model:** Depending on the model, train it on your dataset. PyTorch and Tensorflow provide tools for building and training neural networks efficiently.
- **Evaluation:** After training the model, evaluate its performance using metrics like accuracy, precision, recall, or Mean Average Precision (MAP).
- **Deployment:** Stretch goal. PyQt GUI or web-based chat bot application.

## References:

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