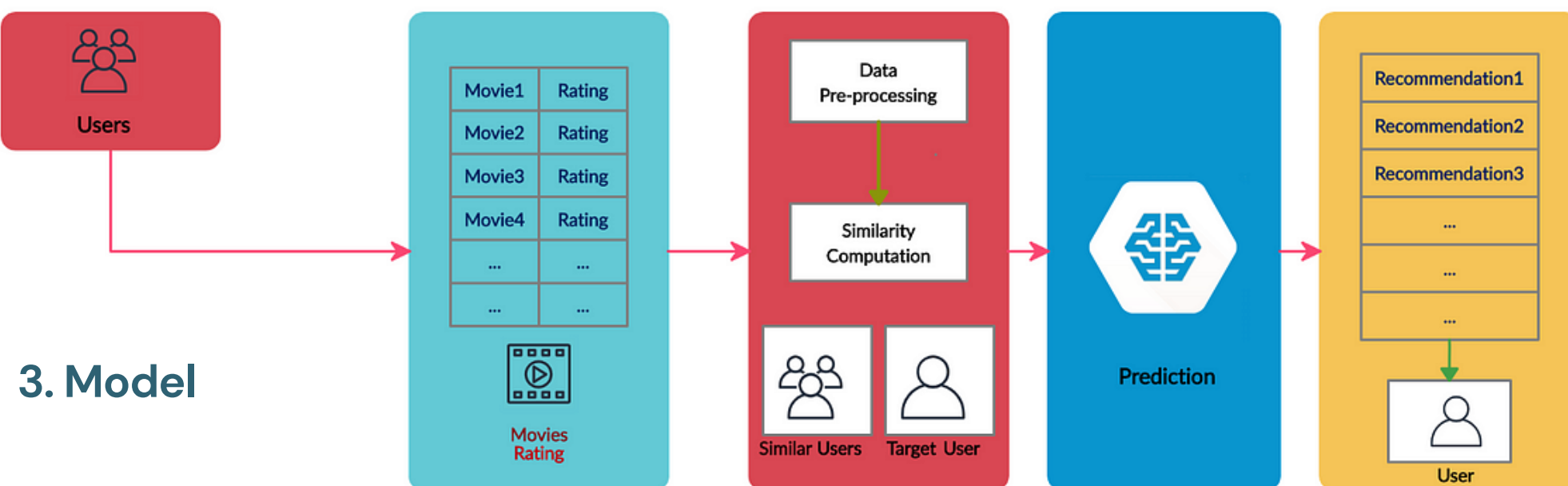


# Movie Recommendation system

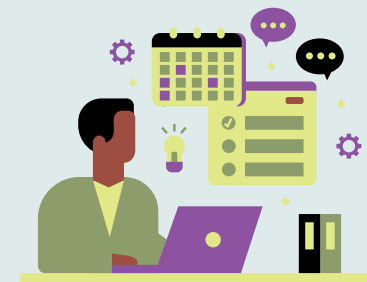
CSE - 523 Machine Learning  
Faculty: Prof. Mehul Raval



## 3. Model

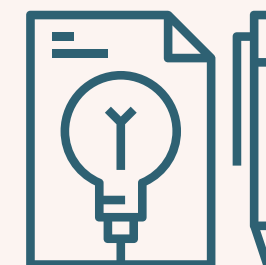
## 1. Abstract

This project aims to build a movie recommendation system using collaborative filtering to provide personalized movie recommendations to users based on their preferences and behavior.

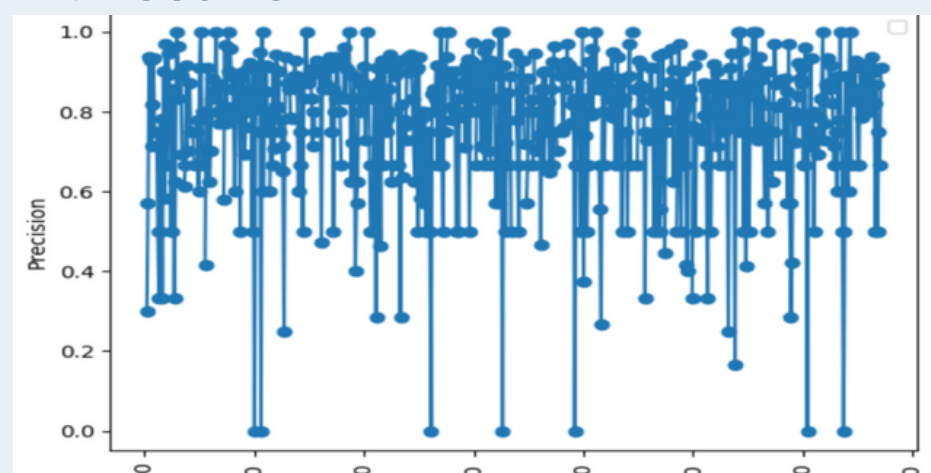


## 2. Problem Formulation

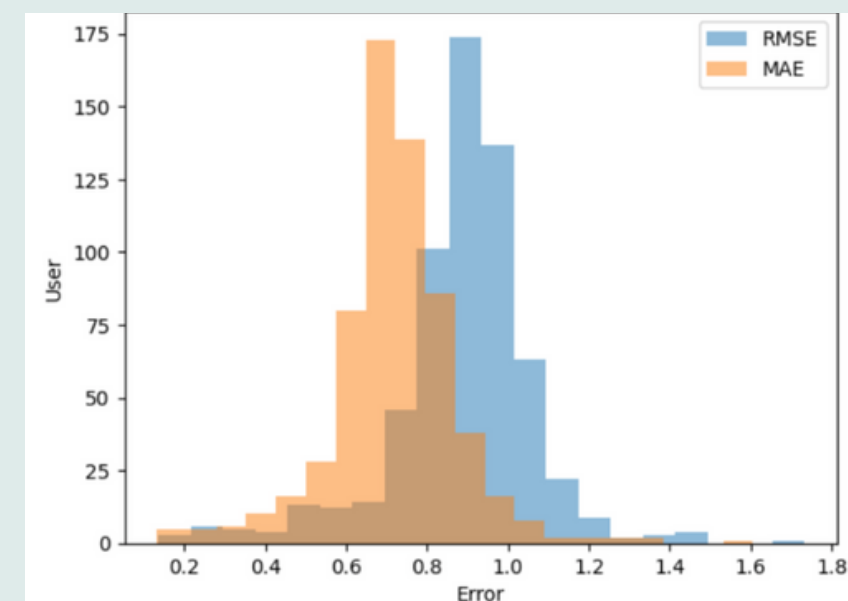
- Data collection
- Splitting data into test and train
- Used Pearson correlation and Cosine similarity to find similarity
- Predicted Movie for the target user
- Analyzed actual and predicted value
- Improved the model by using RMSE and Precision value



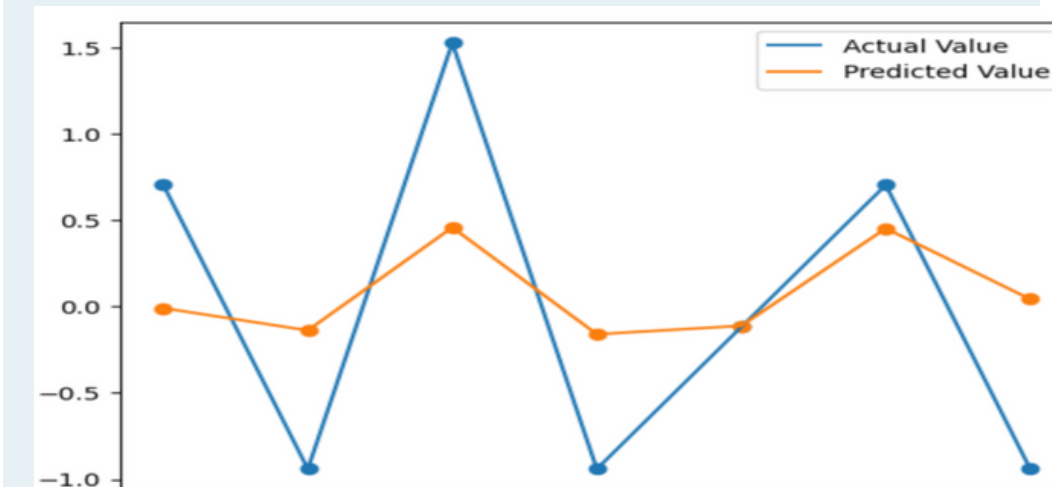
## 4. Results



## Results



## Results



## 5. Conclusion

At last, we can recommend a movie to users based on their preferences and movie ratings.

- We found that we got an accuracy of around 85% for the particular users.
- For overall model accuracy, we get about 80%.

## 6. References

- [1] Wu, C. S. M., Garg, D., & Bhandary, U. (2018, November). Movie recommendation system using collaborative filtering. In 2018 IEEE 9th International Conference on Software Engineering and Service Science (ICSESS) (pp. 11-15). IEEE.
- [2] Lavanya, R., & Bharathi, B. (2021). Movie Recommendation System to Solve Data Sparsity Using Collaborative Filtering Approach. Transactions on Asian and Low-Resource Language Information Processing, 20(5), 1-14.
- [3][https://miro.medium.com/v2/resize:fit:1200/1\\*R2cNKn98tsSb8ocLMs6SKg.png](https://miro.medium.com/v2/resize:fit:1200/1*R2cNKn98tsSb8ocLMs6SKg.png)

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