

INTERNSHIP TECHNICAL REPORT

Time Period : Sep 23, 2019 - Oct 21, 2019

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October 22, 2019

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1 Introduction

- I have learnt about the basic Python programming language, some essential libraries such as Numpy, Pandas, Scrappy, Flask.
- Tried to implement three basic algorithms (content-based, neighborhood-based collaborative filtering and matrix factorization collaborative filtering) of Recommender System as given on *machinelearningcoba.com*.
- Basic knowledge about data analyst on the dataset of the Zalo AI Challenge Hit song prediction.

2 Project and Training Section

- Successfully run three recommender algorithms, source code on *github*.
- Zalo AI Challenge Hit song Prediction data analyst, view pdf on *driver* (need permission).

3 Conclusion and future work

3.1 Conclusion

- Understand some basic algorithms of Recommender system, how to implement an Artificial Intelligence program and how it works.
- Basic knowledge on data analyst and its role on Artificial Intelligence, Data Science.

3.2 Future work

- Some new algorithms for recommender system such as Linear Regression, Logistic Regression, Overfitting and methods to avoid overfitting.
- Apply Linear Regression on the Zalo AI Challenge Hit song Prediction 2019.
- Unsupervised Learning and Deep Learning for Recommender System.

4 Personal Opinion

- I am highly grateful if you provide us some international sources, forums to learn more accurately besides Vietnamese sources.