Progress Report #4

Pathfinder: Personalized Career Path Recommender System for University Students

Leshan Chathuranga Kuruppuarachchi – 300363077

Work Logs

Date	Number of Hours	Description of work done
2025-10-25	2	Work on setting up initial FastAPI environment
2025-10-27	3	Work on job recommending model with FastAPI configuration
2025-10-28	3	Work on bug fixes on job recommendation model
2025-10-29	3	Work on course recommending model with FastAPI configuration
2025-11-03	2.5	Work on course recommending model with FastAPI configuration
2025-11-05	2	Work on progress report 3

Work Description

In the eighth week I setup the initial FastAPI environment and include job recommendation model. When executing trying to execute the model I faced several issues and had to modify the code to run the model properly. Also, I did some code modifications to handle data imbalance and increase the model accuracy. Then, I started to work on course recommending model.

In the ninth week I continued working on course recommending model still the model is not outputting proper results and I'm currently working on fixing that. Meanwhile I worked on creating progress report 4.

Repo Check In

The files/folders I have checked in the repo are as follows:

Documents / (branch: main)

 - Project_LKu077_Report4.pdf

Implementation / backend (branch: leshan)

 - label_encoder.pkl

 - main.py

 - model.py

 - preprocess.py

 - recommend.py

 - saved_model.pkl

 - tfidf.pkl

 - requirements.txt

CSIS-4495 - Applied Research Project