

# Progress Report #4

**Pathfinder: Personalized Career Path Recommender System for University Students**

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## 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)

data/

- course.csv
- job\_postings.csv
- job\_skills.csv
- label\_encoder.pkl
- main.py
- model.py
- preprocess.py
- recommend.py
- saved\_model.pkl
- tfidf.pkl
- requirements.txt