

Progress Report #1

Pathfinder: Personalized Career Path Recommender System for University Students

Leshan Chathuranga Kuruppuarachchi – 300363077

Work Logs

Date	Number of Hours	Description of work done
2025-09-05	3	Initial research on the topic. Refer previous research papers.
2025-09-07	4	Refer previous research papers. Research for existing web scraping resources
2025-09-08	3	Research for existing web scraping resources
2025-09-09	3	Work on project proposal
2025-09-10	2	Work on project proposal Set up git repo
2025-09-11	3	Finalizing project proposal
2025-09-15	2	Work on web scraping code
2025-09-16	3	Work on web scraping code
2025-09-20	4	Work on web scraping code
2025-09-23	1.5	Finalizing project proposal with feedback
2025-09-24	3	Work on progress report 1

Work Description

In the first week our project group was formed and we agreed on a project idea. I began researching existing studies on the topic and reviewed several research papers. I also explored sample web-scraping code to collect data from job sites. In addition, I started

drafting the project proposal and set up the Git repository. We held a few team calls to clarify sections of the proposal.

In the second I finalized the project proposal and focused on developing the web-scraping code. I tested several existing scripts, but they failed due to website security measures and frequent CSS changes. I then began investigating methods to bypass these security restrictions.

In the third week I continued improving the web-scraping code and successfully found a way to handle the security restrictions. I am still refining the code to manage CSS changes and capture all required information. Meanwhile, I finalized the proposal resubmission and prepared Progress Report 1. Also, we held a few team calls to discuss the progress of the project.

Repo Check In

Created the folder structure and updated the README.md file.

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

Documents /

- Proposal_LKu077.docx
- Proposal_LKu077_v1.1.docx
- Project_LKu077_Report1.pdf

Misc / Research Articles / (existing studies research papers)

- 293Harsh1.0 (AJCS).pdf
- CareerX.pdf
- JETIR2403A44.pdf
- PCRS_Personalized_Career-Path_Recommender_System_for_Engineering_Students.pdf
- kainyu-2025-ijca-924808.pdf

Misc / POC Web Scraping / (sample web-scraping code – still refining)

- web_scraping.ipynb