

Final Year Project Proposal

TU856

Project title goes here….

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# Declaration

I hereby declare that the work described in this dissertation is, except where otherwise stated, entirely my own work and has not been submitted as an exercise for a degree at this or any other university.

Signed:

Aileen Coliban\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Aileen Coliban

07/10/2025

# *Project Title*

AI Career Advisor: AI-Driven Screening and Career Recommendation System

# *Summary*

My project, AI Career Advisor, is an AI-driven web application that supports both job seekers and recruiters.

For jobseekers, the idea is that they can upload their CV and the system will analyse the CV with Natural Language Processing to extract key information such as key skills, education and work experience. It will then compare that to job descriptions from the job market and give them feedback, like what roles they might fit into, what skills they’re missing and what areas they could improve in.

On the recruiter side of the applications, they will be able to upload job postings for the system to learn from and use as recommendations and also upload multiple CVs to be analysed. The AI will automatically summarize and visualise key information from each CV which are skills, experience, fit score, etc. in a dashboard with an option to shortlist that application.

The goal is to make recruitment and job seeking more transparent, ethical and data driven, by giving users useful insights into decision making.

The final deliverable will be a working prototype with a functional AI backend, a clean accessible UI and a working dashboard for data visualisation.

# *Background (and References)*

Hints:

Approx 300 words

What is the background for this type of project?

Are there any similar solutions (existing solutions or research)?

For any of your projects features is there any research that can help guide the feasibility/implementation

# *Proposed Approach*

Hints:

Approx 500 words

How do you plan to complete this project?

There are 5 main areas to my approach:

* Research
* Requirements Gathering
  + User Group
* Analysis and Design
* Implementation
* Testing / Evaluation

# *Deliverables*

Hints:

What are your project deliverables?

## Project Schedule

Overview of initial schedule

* Gantt Chart required

# *Technical Requirements*

Hints:

What technical components are needed to deliver this project?

Hardware / Software / Infrastructure?

# *Conclusion*

Summary of the project idea

# 

# *References*

Hint:

Use Zotero to manage your references (see Brightspace resources).

Use the **Harvard** or **IEEE** numbering referencing style

* <https://www.zotero.org/support/quick_start_guide>

# 

# *Appendix A: First Project Review*

Hint: review a past project from the library website that relates to your project idea.

Title:

Student:

Description (brief):

What is complex in this project:

What technical architecture was used:

Explain key strengths and weaknesses of this project, as you see it.

# 

# *Appendix B: Second Project Review*

Hint: review a past project from the library website that relates to your project idea.

Title:

Student:

Description (brief):

What is complex in this project:

What technical architecture was used:

Explain key strengths and weaknesses of this project, as you see it.

# *Appendix C: Prompts Used with ChatGPT*

# *Appendix D:*