

**PROJECT PHASE 1**

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**ROLL NO: F2022266064**

**SECTION: V8**

**SUBJECT: ARTIFICIAL INTELLIGENCE**

AI Project Submission – Phase 1: Project Proposal

1. Project Title:

Feedback Generator for Student Portfolio

2. Problem Statement:

Students often submit portfolios with various achievements and coursework, but teachers or reviewers take a lot of time to write personalized feedback. This project aims to automatically generate helpful and customized feedback for student portfolios using AI.

3. Objectives:

Automatically read and analyze student portfolios.

Generate clear, meaningful, and positive feedback.

Save teachers' time and effort.

Make the feedback process faster and more consistent.

4. Project Description:

The project will create an AI system that can read student portfolios and give automatic feedback based on the content. A portfolio may include academic achievements, skills, extracurricular activities, and project work. The system will look at this information and use trained models or rules to generate suitable comments, suggestions, and praise. The goal is to make the feedback helpful, personalized, and encouraging for the students.

This tool will be useful for teachers, mentors, and students. It will help reduce manual work and also provide quick results that can be reviewed or edited before final use.

5. Artificial Intelligence Technique(s) to be Used:

Rule-Based System for basic feedback patterns.

Natural Language Processing (NLP) for understanding text and generating responses.

Possibly a pre-trained language model like GPT for advanced feedback generation.

6. Proposed Environment:

The AI system will work in a document-based environment where students upload their portfolio text, and the system returns feedback in written form. It can be part of a simple application with a text box and output area.

7. Tools / Languages / Libraries:

Programming Language: Python

Tools: Jupyter Notebook, PyCharm

Libraries: NLTK, spaCy, OpenAI (for GPT), tkinter or streamlit (for UI), pandas (if handling data)

8. Expected Challenges:

Understanding different types of portfolio content.

Making the feedback sound natural and relevant.

Avoiding repetitive or robotic language in feedback.

9. Evaluation Criteria:

How accurate and meaningful the feedback is.

How much time it saves compared to manual work.

How satisfied teachers or users are with the system.

10. Tentative Plan / Timeline:

**Week Task Description**

3–4 Plan the project design, collect sample portfolios, and start building the feedback rules.

5–6 Develop the AI logic and test with sample data.

7–8 Add a simple interface and connect it with the AI system.

9 Final testing, fix any issues, and prepare for project demo or presentation.