

Minor Project 21CSA697A

Project Proposal (Coursera Mode)

Title: Project Proposal

Student Name: Abir Yusuf Sait Roll No.: AA.SC.P2MCA2207108

Sl. No	Courses Selected	Link	Duration of the videos
1.	Python for Data Science, AI & Development	https://www.cours era.org/learn/pyth on-for-applied- data-science- ai?specialization=i bm-data-engineer	25 hours
2.	Create Interactive Dashboards with Streamlit and Python	https://www.cours era.org/projects/int eractive- dashboards- streamlit-python	2 hours
	27 hours		

Main Objective/Deliverable:

- Describe Python Basics including Data Types, Expressions, Variables, and Data Structures.
- Apply Python programming logic using Branching, Loops, Functions, Objects & Classes.

- Demonstrate proficiency in using Python libraries such as Pandas, Numpy, and Beautiful Soup.
- Access web data using APIs and web scraping from Python in Jupyter Notebooks.
- Build interactive data visualizations with Streamlit, Python, Pandas, and Plotly.

Timeline and Milestones:

(may include course enrolment, phases of project planning to do... etc)

	Milestones	Timeline
1.	Enroll in Python for Applied Data Science and AI course. Review syllabus and identify relevant sections.	(12 Nov – 18 Nov)
2.	Complete Python for Applied Data Science and AI course.	(12 Nov – 16 Dec)
3.	Enroll in Interactive Dashboards and Streamlit for Python course. Define the project goals, identify the data sources, and outline the methodology.	(17 Dec - 23 Dec)
4.	design and develop interactive dashboards and visualizations using Python and Streamlit.	(17 Dec – 13 Jan)
5.	Evaluate the dashboards and visualizations, make necessary improvements	(14 Jan – 20 Jan)
6.	Write a report documenting the project methodology, findings, and conclusions, and submit the report and the dashboards and visualizations	(21 Jan – 28 Jan)

Tools to be used for the project

Software Tools	Specifications
Python	Programming language
Jupyter Notebooks	IDE
NumPy, Pandas, Streamlit	Libraries

Learning involved:

Topic	Description
Python Programming:	Learn the fundamentals of the Python programming language, including syntax, data structures, and control flow.
Data Science Libraries:	Explore essential libraries like NumPy and Pandas for data manipulation and analysis.
Jupyter Notebooks:	Understand how to work with Jupyter Notebooks for interactive coding and documentation.
Data Visualization with Streamlit:	Explore how to integrate data visualizations into Streamlit applications to convey insights effectively.
Plotly Python:	Create interactive plots with Plotly Python

Date 12 – Nov - 2023

Student Name and Signature : Abir Sait

