Python for Data Analysis: Pandas & NumPy

This repository contains my hands-on project completed as part of the Coursera course: Python for Data Analysis (Pandas & NumPy).

The purpose of this project was to gain practical experience in working with Python for data analysis. I built this project as a learning exercise to strengthen my understanding of Python programming fundamentals, data manipulation, and essential data analysis tools.

What I Learned

- Understand Python programming fundamentals for data analysis

- Define and work with single and multi-dimensional NumPy arrays

- Import and manipulate HTML data in Pandas DataFrames

Skills Practiced

- Pandas (Python Package) – Data manipulation and analysis

- NumPy – Working with arrays and numerical computations

- Data Structures – Lists, arrays, and tabular data

- Data Manipulation – Cleaning, transforming, and analyzing datasets

- Data Analysis & Data Science – Extracting insights from structured data

- Python Programming & Computer Programming – Writing clean, functional code

Purpose of the Project

I worked on this project to get hands-on experience and improve my practical skills in data analysis using Python. This was not a production project, but a learning-based project aimed at enhancing my knowledge and building confidence with Python, Pandas, and NumPy.

Next Steps

- Continue practicing with real-world datasets

- Apply Pandas and NumPy in machine learning projects

- Strengthen knowledge in data visualization (Matplotlib, Seaborn)

Note

This project is for educational and learning purposes only.