**Stock Analysis in Python**

This project demonstrates data analysis and visualization techniques using Python to study stock market trends.

It includes data loading, cleaning, exploratory data analysis (EDA), and visual insights into stock performance.

# Project Overview

The notebook walks through:

1. Data Importing – Reading stock price data from CSV.
2. Data Cleaning – Handling missing values, data type conversion.
3. Exploratory Data Analysis (EDA) – Understanding stock behavior through descriptive statistics.
4. Data Visualization – Creating insightful charts for trends and patterns.
5. Conclusion – Key findings from the analysis.

# Technologies Used

* Python 3
* Pandas – Data manipulation
* NumPy – Numerical computations
* Matplotlib & Seaborn – Data visualization
* Jupyter Notebook

# Example Insights

* Price trends over time
* Moving averages- Volume trends
* Volatility analysis

# How to Run

1. Clone this repository:

git clone https://github.com/your-username/stock-analysis-python.git

1. Navigate to the folder: cd stock-analysis-python
2. Install dependencies:

pip install -r requirements.txt 4. Open the Jupyter Notebook: jupyter notebook 495Stock\_analysis\_in\_python.ipynb

# Dataset

* Source: Publicly available stock price CSV
* Columns typically include:
* Date
* Open
* High
* Low
* Close
* Volume

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