

MAYANK PATEL

PYTHON DEVELOPER

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SUMMARY

At Cybrom Institute, an aspiring software development engineer is presently undergoing training in Python Full Stack development, establishing solid foundations through practical projects in web technologies, programming, and problem-solving.

PROJECTS

Stock Price Prediction

- Analyzed Tesla stock data to identify trends using visualizations and statistics.
- Trained an ML model to predict future stock prices.
- Saved the model for future use and deployment.

Customer segmentation with K-means

- Analyzed customer data to identify distinct patterns and behaviors.
- Applied K-Means clustering to segment customers into meaningful groups.
- Visualized clusters to support targeted marketing strategies.

NLP Sentiment Analysis

- Preprocessed text data for sentiment analysis using tokenization and vectorization.
- Used a Bayesian model to classify text into positive or negative sentiments.
- Achieved accurate results and evaluated model performance on test data.

Crypto Trading Bot (Python, Binance API)

- Developed a command-line Python bot for crypto trading using the Binance Testnet API.
- Implemented support for multiple order types with robust execution logic.
- Integrated a logging system to record all trading activities for debugging and performance track

AI-Powered PDF Query System

- Built a project that allows users to upload a PDF and query its contents using natural language.
- Implemented document chunking and vector embeddings to enable semantic search and context-aware responses.
- Leveraged LangChain's framework to connect LLMs for intelligent question answering over the PDF data.
- Ensured efficient resource management by applying the Singleton pattern for embedding and model initialization.

SKILLS

Python

Design Patterns

Seaborn

Matplotlib

SQL

Core Java

JavaScript

Figma

HTML

CSS

EDUCATION

Masters of Computer Application
LNCT-University

2024-Present

Bachelor of Computer Science
Prestige Institute of Management and Research

2020-2023

ADDITIONAL INFORMATION

Certifications: Java with Data Structures & Algorithms - from PW Completed

- Data Science Certification Program – Sheryians Coding School
- At Cybrom Institute, a Python Full Stack Developer trainee receives continuous training in front-end, back-end, and Python programming. actively honing skills via projects and real-world application.

Awards/Activities:

- Co-authored a research paper on Thyroid Disease Detection using AI leveraging machine learning for medical diagnostics.
- Presented a paper on Natural Language Processing (NLP) at MANIT, Bhopal.
- Proficient in Java and well-versed in Data Structures & Algorithms