

# 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

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#### 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

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Python  
Design Patterns  
Seaborn  
Matplotlib

SQL  
Core Java  
JavaScript  
Figma

HTML  
CSS

EDUCATION

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|--|---------------------|
| <b>Masters of Computer Application</b><br>LNCT-University                            | <b>2024-Present</b> |
| <b>Bachelor of Computer Science</b><br>Prestige Institute of Management and Research | <b>2020-2023</b>    |

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