

# MD Osama

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## Summer Training

GeeksforGeeks

Data Structures and Algorithms - Self Paced

June 2024 - July 2024

- Completed an in-depth training program on data structures and algorithms, covering arrays, linked lists, stacks, queues, trees, graphs, dynamic programming, and sorting/searching algorithms.
- Gained hands-on experience in problem-solving and coding implementations using C++.

## Projects

AI-Powered Chatbot | Python, Flask, REST API, NLP, LLM

January 2025 – April 2025

- Developed an AI conversational assistant using Google Gemini LLM, Flask, and JavaScript, capable of understanding natural language and generating context-aware responses across multiple domains.
- Designed and deployed a full-stack AI chatbot architecture using Flask REST API + modern responsive UI (HTML/CSS/JS) with animated messaging and voice output for enhanced UX.
- Implemented SQLite-based conversation memory logging, enabling personalized replies and reusable analytics for future enhancements.
- Integrated robust error handling, retry logic, and fallback model switching, significantly improving reliability during API overload and quota fluctuations.
- Demonstrated strong capability to merge AI/ML, backend API development, and frontend engineering into a scalable, production-ready solution.
- [Project Link](#)

Stock Price Prediction | Python, LSTM, TensorFlow

September 2024- November 2024

- Designed and implemented a deep learning model using LSTM networks to predict Apple stock prices.
- Performed comprehensive data processing, including filtering, normalization and sequence generation for time series input.
- Trained and validated the LSTM model to forecast future closing prices with high accuracy, achieving a low RMSE on the test set.
- Applied real-time evaluation metrics (MSE, RMSE) and plotted actual vs. predicted prices to assess prediction accuracy and model robustness.
- [Project Link](#)

## Certificates

- Cybersecurity

April 2025

Udemy - [Certificate Link](#)

- Self-paced DSA

July 2024

GeeksforGeeks - [Certificate Link](#)

- Programming C++

August 2024

Coursera - [Certificate Link](#)

## Technical Skills

- Languages: Python, C++, Java, HTML, CSS

Frameworks & Libraries: TensorFlow, PyTorch, Hugging Face Transformers, Keras, Scikit-learn, NumPy, NLTK, SpaCy, Flask, REST API Development, MySQL, SQLite

Tools & Platforms: Jupyter Notebook, Google Colab, Git, GitHub

Core Skills: Problem-Solving, Team Collaboration, Time Management, Communication, Adaptability, Leadership, Critical Thinking, Machine Learning, Database Management

## Education

- Lovely Professional University

August 2022 – Present

Phagwara, Punjab

Computer Science and Engineering – CGPA: 6.05

- Samastipur College

March 2018 – May 2019

Samastipur, Bihar

12th with Science – Percentage: 72%

- D.M.P Holy Mission School

March 2016 – April 2017

Samastipur, Bihar

10th with Science – CGPA: 9.8