MD Osama

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Summer Training

GeeksforGeeks **June 2024 - July 2024**

Data Structures and Algorithms - Self Paced

- 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 Intent-Based Chatbot | Python, TensorFlow, NLP **January 2025 – April 2025**

- Developed an AI-driven chatbot using Python, Keras, and NLP techniques to classify user queries based on intent and respond accordingly using a trained neural network model.
- Designed and trained a custom intent classification model using TensorFlow/Keras, achieving over 90% training accuracy.
- Integrated the chatbot into a live Gradio web interface to allow real-time user interaction via a public link.
- Implemented error handling, response fallback logic, and model saving/loading pipelines for reuse and scalability.
- 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
- **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**
  Computer Science and Engineering – CGPA: 6.05 Phagwara, Punjab
- **Samastipur College** **March 2018 – May 2019**
  12th with Science – Percentage: 72% Samastipur, Bihar
- **D.M.P Holy Mission School** **March 2016 – April 2017**
  10th with Science – CGPA: 9.8 Samastipur, Bihar