MUNSHIF MUHAJIREEN

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SUMMARY

As a Computer Science undergraduate specializing in AI, I'm eager to apply my skills in machine learning, deep learning and data analysis to real-world challenges. With hands-on experience in TensorFlow, Scikit-learn & etc. I've built predictive models, NLP pipelines. I'm excited to contribute to your AI initiatives and grow as a valuable team member.

PROJECTS

Bitcoin Price Prediction - Market Trend Analysis

AI-Powered Cryptocurrency Forecasting for Intelligent Investment Strategies

- Developed a predictive model for Bitcoin price forecasting using LSTM (Long Short-Term Memory) to enable high-accuracy market trend analysis.
- Collected and preprocessed historical Bitcoin price data from Yahoo Finance spanning over 15 years, including key metrics such as Open, Close, High, Low, and Volume.
- Built an LSTM-based model to predict future Bitcoin prices based on 60 previous days of data.
- Applied StandardScaler for data normalization, using a sliding window technique to prepare training data.
- Evaluated model performance using MAE (Mean Absolute Error) and RMSE (Root Mean Squared Error).
- Visualized the predictions against actual data to assess forecasting accuracy.
- Employed Dropout regularization to prevent overfitting, ensuring robustness in long-term forecasting.
- Tech Stack: Python, TensorFlow/Keras, Pandas, NumPy, Matplotlib, Seaborn, LSTM

IoT-Based Smart Weather Station Using ESP32 and Sensors

AI-assisted weather monitoring and data collection for accurate environmental analysis

- Developed an IoT-based weather station using ESP32 to collect real-time environmental data such as temperature, humidity, and air quality.
- Integrated sensors (e.g., DHT22, MQ-135) to measure temperature, humidity, and air quality, enabling accurate environmental monitoring.
- Designed a system to upload data to the cloud for remote monitoring and access, improving data accessibility and analysis.
- Enabled real-time weather data visualization and analysis through cloud storage, allowing users to monitor conditions remotely from anywhere.
- Ensured system reliability through ESP32's Wi-Fi connectivity, enabling continuous data collection and transmission.
- Tech Stack: ESP32, DHT22 Sensor, MQ-135 Sensor, C/C++

EDUCATION

BSc (Hons) Computer Science with AI (Undergraduate) **2023 - 2026**
National Institute of Business Management (NIBM)
- Ongoing

G.C.E. Advance Level Examination **2020 - 2022**
Zahira College Matale
- Successfully Completed Physical Science Stream

TECHINCAL SKILLS

- Languages: Python, Java, C/C++
- AI/ML Frameworks: TensorFlow, PyTorch, Scikit-learn
- Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn
- Tools & Platforms: Git, Github, CI/CD, AWS
- Other: SQL, MongoDB, Django

SOFT SKILLS

- Problem Solving & Critical Thinking
- Creative & Fast Learner
- Team Collaboration

LANGUAGES

- English
- Tamil
- Sinhala

CERTIFICATES

- Introduction LLM (Google Cloud)
- Neural Networks and Deep Learning (DeepLearning.AI)
- Introduction to Computer Vision and Image Processing (IBM)
- Python Course (University of Moratuwa)
- Responsive Web Design (freeCodeCamp)