Mahadevan Biju Menon

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EDUCATION

Vidya Academy of Science and Technology   Thrissur , Kerala

Bachelor of Technology in Computer Science; **CGPA – 7.**1   **August 2019 - July 2023**

SKILLS

- **Languages & Frameworks**: Python, Pandas, NumPy, Scikit-learn, Plotly, Tensorflow, yfinance, OpenCv
- **Tool Skills**: MS Excel, Jupyter Notebook, VS Code, GitHub, Google Colab, Anaconda
- **Soft Skills**: Problem Solving, Critical Thinking, Domain Knowledge (Finance, Software), Communication skills

PROJECTS

Tweet Sentiment Classifier– Deployed NLP project using Hugging Face Transformers + Gradio

- Fine-tuned RoBERTa model to classify tweets as Positive, Neutral, or Negative
- Achieved **82% F1-macro** by handling class imbalance and tuning loss function
- Built and deployed an interactive UI using **Gradio on Hugging Face Spaces | Try it Live**

Live Sign Language Classification | *OpenCV, MediaPipe, LSTM* | Github

- Integrated MediaPipe Holistic & LSTMs for real-time gesture tracking and classification.

Reliance Stock Direction Classifier | *Random Forrest, Pandas, Scikit-learn, GridSearchCV* | Github

- Applied feature scaling, lag engineering, and time series validation.
- Tuned RandomForestClassifier using GridSearchCV with custom balanced_recall_score to optimize class-balanced performance across key hyperparameters.

Reliance Stock Price Forecasting | *LSTM, Time Series, TensorFlow, joblib* | Github

- Built an LSTM model to predict 2-day-ahead closing prices using pre-processed OHLCV data; used early stopping, StandardScaler, and model serialization to prevent overfitting and to get reproducible results.

WORK EXPERIENCE

Independent Retail Trader | [August, 2023] – Present

- Executed independent trading: Managed personal portfolio focusing on Indian stock indices (Nifty 50 and Bank Nifty) over the past 2 years, consistently maintaining a disciplined and process-oriented trade approach.
- Analysed large volumes of stock price data and made data-driven trading decisions based on statistical indicators instead of emotional bias.

Co-Founder & Developer — CodeCraft Ventures[January, 2024] – [March, 2025]
Freelance / Startup initiative

- Delivered small scale machine learning and web development projects to clients
- Attracted and retained clients through effective communication

CERTIFICATES

Machine Learning Crash Course | Google | Link