



MUHAMMAD HAMTHAN

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ABOUT ME

A passionate final-year Information Technology student with a strong interest in data science, machine learning, NLP, computer vision, and web development. Experienced in building AI-driven solutions and integrating deep learning models into applications. Always eager to learn new technologies and explore innovative solutions. Enthusiastic about solving real-world problems through data-driven approaches and looking forward to expanding my knowledge by working on hands-on projects and gaining practical experience.

SKILLS

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| • Programming & Development | : | Python, Flutter, Dart, Node js, Flask, Html, CSS. |
| • Machine learning & AI | : | Deep Learning, NLP, Computer Vision, LSTM, Siamese Networks. |
| • Data science & Analytics | : | Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Excel, Jupyter. |
| • Web & App development | : | Streamlit, Flask APIs, Flutter Mobile Apps. |
| • Databases & Storage | : | MongoDB, PostgreSQL, SQL. |
| • Cloud & DevOps | : | AWS EC2, S3, CI/CD, Docker, DevOps Tools. |
| • Tools & Platforms | : | Git, GitHub, LangChain, Hugging Face, AI Tools. |
| • Product & Architecture | : | Product Architecture, Application Design & Deployment. |
| • Soft skills | : | Strategic Problem-Solving, Rapid Learning & Adaptation, Innovative Thinking, Effective Communication. |

PROJECT EXPERIENCE

Stock Price Prediction

- Refined an LSTM-based model, attaining 92% accuracy in forecasting stock price movements.
- Designed technical indicators, boosting predictive performance by 15%.
- Implemented the model using Streamlit for interactive visualization and decision-support.

NLP - Sentiment Analysis

- Constructed a sentiment analysis framework, evaluating VADER and RoBERTa.
- Processed and examined text data for emotion classification.
- Assessed model effectiveness to determine the optimal strategy.

AI-Powered Chatbot for College Admissions

- Built a chatbot utilizing LangChain and Google Gemini AI for precise document extraction.
- Achieved a 90% query resolution rate, improving engagement for Crescent College admissions.
- Launched via Flask, embedding real-time web scraping for current information retrieval.

Agentic AI Assistant with Multi-Tool MCP Integration

- Developed an agentic AI system by integrating LangChain, Groq LLM, and modular MCP servers (Math, Weather, PostgreSQL) to enable real-time, tool-augmented reasoning. Implemented ReAct-based orchestration with secure API handling and scalable transports (HTTP/STDIO), delivering a multi-domain assistant capable of intelligent, context-aware decision-making.

Deepfake Detection App

- Developed a Flutter-based frontend for a Deepfake Detection system, integrated with Node.js backend and Python for model inference. Trained an EfficientNet model to detect manipulated media with high accuracy.
- Implemented a seamless mobile interface to upload and analyze videos/images.

EDUCATION

- B.S. Abdul Rahman Crescent Institute of Science & Technology, B. Tech Information Technology (2022 – 2026) - Current CGPA: 7.14
- Hilton Matriculation Higher Secondary School (2020 – 2022) - 12th Percentage: 79%
- M.K.V. Kandasamy Nadar Matriculation Higher Secondary School (2018 - 2020) - 10th Percentage: 82%

INTERNSHIP & TRAINING

Triton Tech Lab Internship

- Applied data science techniques in real-world applications, optimizing predictive modeling.
- Developed Flask-based applications with PostgreSQL integration.

CERTIFICATIONS

Data Science & Machine Learning Certification - Rinex

- Acquired hands-on experience in data analysis, predictive modeling, and machine learning techniques.
- Worked on end-to-end data science projects, covering data preprocessing, model development, and deployment.

Data Structures & Algorithms Using Python - NPTEL

- Strengthened algorithmic problem-solving skills, optimizing computational efficiency and data manipulation.