



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

- **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.