

AMAL M

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PROFESSIONAL SUMMARY

Data Science and AI enthusiast with hands-on experience in Machine Learning, Deep Learning, and Generative AI. Proficient in Python, R, and SQL, with expertise in building, evaluating, and deploying ML models using tools like TensorFlow and Streamlite. Passionate about solving real-world problems using data-driven methods and LLM-powered applications.

EDUCATION

- Diploma in Data Science & Artificial Intelligence, KELTRON Knowledge centre, Thiruvananthapuram (2024-2025)
 - B.Tech in Electrical and Electronics Engineering, Sarabhai Institute of science and technology, Thiruvananthapuram, APJAKTU (2019-2023)
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TECHNICAL SKILLS

- Programming Languages: Python, R, SQL, OOP, C Machine Learning & AI: Supervised/Unsupervised Learning, Deep Learning, Neural Networks, Transfer Learning, Time Series Forecasting, Model Deployment, Hyperparameter Tuning.
 - Generative AI: Prompt Engineering, OpenAI GPT LangChain, LlamaIndex, Hugging Face Transformers, Whisper API, Vector Stores (FAISS, ChromaDB)
 - Tools & Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, NLTK, spaCy, OpenCV, Streamlit, Gradio
 - Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI, EDA, Statistical Analysis
 - Data Engineering & Cloud: GCP (BigQuery, Cloud Storage, Translation API), Docker,, Git/GitHub, Jupyter, VS Code
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MAIN PROJECT

Skin Condition Classification using CNN

Built a CNN-based classifier for dermatological image recognition. Achieved >90% accuracy, precision, and recall. Deployed and evaluated with a confusion matrix.

GitHub: <https://github.com/amal1310/skin-condition-prediction>

PROJECTS

- Multi-language Sentiment Analyzer - NLP sentiment analysis for Malayalam, Hindi, and English using Hugging Face and Streamlit.
- LLM-Powered Quiz Generator - Auto-generates MCQs from documents using GPT and LangChain.
- Instagram Caption Generator - Generates creative captions with GPT from keywords/images.
- Career Advice Chatbot - GPT-powered assistant suggesting jobs and skills.
- Stock Price Forecasting - Time-series modeling with Prophet and LSTM.
- YouTube Summary Extractor - Converts video audio into summaries using Whisper and GPT.
- Loan Eligibility Predictor - Streamlit ML tool for predicting loan approvals.
- AI Resume Generator - GPT-based resume builder and PDF renderer.
- E-commerce Price Predictor - Price estimation using XGBoost.
- Conversational PDF Assistant - LLM-powered chatbot using LangChain and LlamaIndex

EXPERIENCE

Lab Assistant Intern, Sarabhai Institute of Science and Technology (Sep 2023 - Jan 2024)
Supported lab work, maintained equipment, and assisted IoT and embedded research.

CERTIFICATIONS

- Data Science & Analytics, HP LIFE (Feb 2025)
- Introduction to Cybersecurity, HP LIFE (Feb 2025)
- Arduino Workshop, Riglabs, Cyfosys (Mar 2021)
- Gen AI , Nvidia (Jun 2025)