Rahul Vyas M

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Summary

Motivated student nearing the completion of a degree, eager to gain practical experience as a Machine Learning and Artificial Intelligence engineer. Driven by the application of academic knowledge to real-world challenges and the collaboration with industry experts. Passionate about building a career in data science and passionate about learning from accomplished professionals in the field.

Education

SRM Institute of Science and Technology Chennai, India

Bachelor of Technology – Artificial Intelligence; CGPA: 8.4 *Sept. 2022 – May 2026*

Experience

Quentangle Sept. 2023 – April 2024

Product Developer *Remote (Based in London)*

- **Developed AI Chatbot:** Designed and implemented an AI-powered chatbot using Quentangle's proprietary quantum programming language, enhancing conversational capabilities. The chatbot included features such as error correction, code generation, and code explanation, catering to developers and end-users with advanced NLP techniques.

Programming Skills

- **Languages:** Python, Java, C/C++, HTML, CSS
- **AI/ML Frameworks and Tools:** PyTorch, TensorFlow, Data Analysis, OpenCV, LangChain, OpenAI, GANs, Retrieval-Augmented Generation (RAG), LLMs (e.g., GPT-4, Llama)
- **Models and Generative Frameworks:** Stable Diffusion, YOLO (v8/v11), CNN, LSTM, TTS (Text-to-Speech)
- **Backend and Database Development:** Flask, PostgreSQL, MySQL, MongoDB
- **DevOps and Cloud Technologies:** Docker, Git, CUDA Toolkit
- **Core CS Concepts:** Data Structures, Algorithms, OOP (Object-Oriented Programming)

In-House Projects

Assessment of ML Models for Induction Motor Fault Detection Nov 2024 – Jan 2025

Role – Machine Learning Lead

- Collaborated with Power Systems and AI departments to monitor and minimize induction motor downtime by diagnosing faults using ML algorithms (Random Forest, SVM, Decision Tree, Naïve Bayes, Logistic Regression, Gradient Boosting). Analyzed data, applied PCA for feature extraction and performed comparative analysis based on accuracy, precision, recall, and F1-score.

Projects

Skin Cancer Classifier

- Built a skin cancer classifier model using ResNet which can classify up to seven different cancer types.
- **Technologies:** Python, Machine Learning Algorithms, ResNet, Jupyter Notebook

Medical Insurance Cost Prediction using ML

- Built a machine learning model to predict individual medical insurance costs based on various demographic and health-related factors, providing data-driven insights to assist healthcare providers, insurance companies, and individuals in forecasting medical expenses.
- **Technologies:** Python, Machine Learning Algorithms, Jupyter Notebook

Hackathons

- **Quantum Track Winner – Quantathon:** September 2023
- **Paticipation – Ideathon to Hackathon:** March 2024

Certificates

- Machine Learning: Regression and Classification
- Cybersecurity Fundamentals
- AWS Academy Machine Learning Foundations
- AWS Academy Cloud Foundations
- Oracle Cloud Infrastructure Foundations Associate

Skills & Interests

Skills: Probability and Statistics, Microsoft Excel, Microsoft Office

Interests: Photography, Creative Writing, Video Editing, Music Composition, Traveling

Lanuguages

English, Telugu, Hindi

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