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## Professional Summary

Aspiring Data Scientist with a strong foundation in Machine Learning, Deep Learning, and Generative AI. Skilled in building end-to-end ML models, data preprocessing, and deploying AI applications using Python, TensorFlow, Scikit-learn, and Streamlit. Experienced with modern tools such as LangChain for LLM-powered development. Passionate about solving real-world problems through AI, with a focus on NLP, Computer Vision, and MLOps. Currently exploring Large Language Models and AI agent frameworks. Eager to contribute to dynamic teams in Data Science, ML, or AI roles.

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## Skills:

- **Programming:** Python, SQL
  - **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, Keras
  - **Data Analysis & Manipulation:** Pandas, NumPy, Matplotlib, Seaborn
  - **Web Deployment & DevOps:** Streamlit, Docker, Git, MLflow, FastAPI
  - **Data Visualization:** Power BI, Matplotlib, Seaborn
  - Cloud Platforms: AWS (EC2, S3)
  - **Agentic & Generative AI:** LangChain, LangGraph, LLMs (GPT, Mixtral), Generative AI
  - **AI Domains:** Natural Language Processing (NLP), Computer Vision, MLOps, RAG (Retrieval-Augmented Generation)
  - **Tools & Frameworks:** Hugging Face Transformers, Sentence Transformers, FAISS, Pydantic, Apify SDK
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## Education

### B.Sc. Management Studies and Commerce

University of Sri Jayewardenepura, Sri Lanka | 2026

### Certified Data Scientist (IIT-M)

GUVI India, Online | 2025

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## Projects

### 1. HR-Recruitment-AI-Agent-System [\(GITHUB\)](#)

- Developed a modular AI-powered recruitment automation system leveraging Generative AI.
- Developed an AI-driven resume screening system with **Groq summaries, automated ATS decisions, personalized emails**, and Streamlit-FastAPI integration.
- **Tools & Technologies:** Python, LangChain, LangGraph, Streamlit, FastAPI, Groq (LLM)

### 2. Role Base Access Control Chatbot [\(GITHUB\)](#)

- Developed a secure, role-aware internal chatbot for a FinTech company using **Retrieval Augmented Generation (RAG)** architecture.
- Implemented Role-Based Access Control (**RBAC**) to restrict data access per user role (Finance, HR, Marketing, Engineering, etc.).
- Built **FAISS** vector stores to retrieve relevant documents per department.
- **Tools & Technologies:** Python, LangChain, FastAPI, Streamlit, OpenAI

### 3. Wine Quality Prediction & AI Recommendations [\(GITHUB\)](#)

- Implemented a machine learning system to predict wine quality and offer personalized suggestions by **Large Language model**.
- Achieved **93% accuracy** using a **RandomForestClassifier** model.
- Increased model performance by **13% compared to other models**.
- **Tools & Technologies:** Python, Pandas, Scikit-learn, Streamlit, RandomForest, LLM4

### 4. Plant Disease Detection & AI Report System [\(GITHUB\)](#)

- Built a deep learning web app to identify plant diseases from leaf images and generate AI driven treatment reports.
  - Fine-tuned **VGG16** model to classify tomato and pepper plant diseases.
  - Integrated **Groq's LLM** to auto-generate reports with symptoms, causes, and treatments.
- Tools & Technologies:** Python, TensorFlow, (VGG16), Streamlit, LLM (**Mixtral-8x7b**)

## Internship Experience

### NoviTech R&D Private Limited, Coimbatore (Remote)

MAY 2024 – OCT 2024

#### Artificial Intelligence Intern

MAY 30, 2024 – JULY 3, 2024

- Completed a one-month internship focused on artificial intelligence.
- Worked on AI-based projects and developed intelligent solutions.
- Received Certificate of Completion (ID: AIINZ2b).

#### Data Analytics Intern

MAY 30, 2024 – JULY 3, 2024

- Analyzed real-world datasets to extract insights using data analytics tools.
- Delivered findings through structured reports and visualizations.
- Received Certificate of Completion (ID: BAIND07).

#### Machine Learning & Python Intern

AUG 8, 2024 – OCT 8, 2024

- Developed machine learning models and Python scripts for project tasks.
- Applied ML algorithms to solve business-related problems.
- Received Certificate of Completion (ID: MLINZ2b).

## Languages

- English
- Tamil

## Hobbies & Interests

- Exploring new AI trends and building applications.
- Participating in Kaggle Competitions.
- Public Speaking on Tech Innovations.