Aravinth Meganathan

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SUMMARY

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As a data scientist with 2 years of experience, I help businesses grow by solving problems using machine learning and AI. Over the past year, I built a machine learning model that increased customer conversions by 12%, directly boosting revenue. I enjoy turning data into smart decisions that improve business performance.

"Aravinth is the kind of professional who combines technical growth with strong interpersonal values. Any team would benefit from his presence, and I have no doubt that he'll continue to succeed in more complex and impactful roles." ~ Santhosh Nagaraj, Senior Data Science Specialist, GAIRAA Technology Solutions Private Limited

SKILLS

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Machine Learning & AI:
AI Agents, Deep Learning, MCP, Generative AI, Large Language Models (LLMs), NLP, Statistical Modeling, Supervised & Unsupervised Learning, Time-Series Forecasting, Transformers, Computer vision

Data Science & Analytics:
EDA, Matplotlib, NumPy, Pandas, Power BI, Seaborn

Programming & Frameworks:
LangGraph, LangChain, MLflow, Python, Scikit-learn, Selenium, SQL, Streamlit

Cloud & DevOps:
AWS, CI/CD, Docker, Basic knowledge of Azure & GCP, GIT

Libraries & Tools:
Hugging Face Transformers, OpenAI APIs, PyTorch, TensorFlow, ChromaDB, Faiss

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HCL GUVI   **Chennai, India**
Data Science Specialist   May 2023 to present
🔑 **Key Projects**

RAG-Powered HR Chatbot using LangChain
- Built an intelligent HR chatbot using **Retrieval-Augmented Generation** (RAG) with **LangChain**, enabling accurate, document-based responses to HR-related queries (e.g., leave policy, benefits). Used OpenAI's **text-embedding-ada-002** and Hugging Face sentence

transformers for embedding generation, and implemented vector search using ChromaDB. Language generation powered by **LLaMA 2/3 70B**.

- Deployed the complete pipeline on **AWS (EC2 & S3)** with a Streamlit UI, handling PDF ingestion, document chunking, retrieval, and natural language generation. Designed for internal use to automate repetitive HR queries, reduce manual workload, and improve support turnaround time.

AI-Powered Pandas Code Practice Platform with Streamlit

- Built an interactive coding practice platform that generates real-time Pandas coding challenges using **Groq LLMs (LLaMA 3)**, with difficulty-level selection and autogenerated datasets. Implemented intelligent evaluation by comparing user-submitted DataFrame.

- Developed a dynamic Streamlit UI using streamlit-ace code editor, with persistent question caching and real-time code execution. Integrated custom LLM prompting, DataFrame preview, and auto-resume features to support consistent user sessions and scalable interview-level practice use cases.

Lead Prioritization for Course Enrollment

- **Engineered** and **deployed** a predictive model using CatBoost to assess student enrollment likelihood, which **boosted** lead conversion accuracy by **23%**.

- **Integrated** a batch prediction API within a Streamlit app and **orchestrated** CI/CD automation and model retraining on AWS, **streamlining** workflows and **reducing** manual intervention by **40%**

NLP-Based Query Classification

- **Designed** and **fine-tuned** a DistilBERT-powered classification model to **categorize** student support queries, **reducing** misrouted tickets by an estimated **30%**.

Worked at **Ashok Industries** and **India Nippon** in mechanical engineering roles (2015–2019) and owned a business (2019–2022)

EDUCATION & CERTIFICATIONS

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AWS Certified Cloud Practitioner (CCP)   (View)
AI Agents Fundamentals (Credential ID Aravinth – Megnath)   (View)
IBM Data Science Professional Certificate   (View)
SQL(Intermediate) – Hacker Rank   (View)
B.E(Mechanical) – ACE, Hosur

ADDITIONAL INFORMATION
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- Judge at Codeathon – Sri Eshwar College of Engineering.
- Guest speaker on Cloud Computing – Vivekanandha College
- Conducted 5-day Machine Learning Workshop – K.S.R. College of Engineering.