Mahendran B

LinkedIn | GitHub | Portfolio

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AI/ML Engineer

Early-career AI/ML Engineer graduate specializing in **Machine Learning, Deep Learning, Generative AI and RAG**. Hands-on experience developing and deploying end-to-end AI solutions using **Python, PyTorch, TensorFlow and Azure**, supported by internships in AI engineering and Generative AI research. Microsoft Certified: **SQL AI Developer Associate**.

Technical Skills

Languages	:	Python, SQL, C++, R, Java
AI/ML	:	TensorFlow, PyTorch, Scikit-learn, Transformers, HuggingFace, OpenCV, MLflow
GenAI	:	LangChain, RAG, Embeddings, Vector Search, GPT-4
Cloud/DevOps	:	Azure, GCP, Docker, Kubernetes, CI/CD
Web/Data	:	Flask, Spring Boot, MySQL, MongoDB, ChromaDB, Power BI, Pandas, Matplotlib

Experience

Generative AI Research Intern Dec 2025 – May 2026

TekWissen Software Pvt. Ltd.

- Engineered a B2B **Market Reachout Automation System** using Apollo, ZoomInfo, Crunchbase, Claude, n8n, Instantly, SmartReach.io, Docker and Kubernetes.
- Automated AI-based lead monitoring and personalized outreach, improving output consistency by **15%**; built reply classification to route prospects to sales or a **RAG bot**.
- Containerized and orchestrated scalable deployment, reducing error recurrence by **30%** and improving processing speed by **13%**.

AI Intern Aug 2025 – Oct 2025

Infosys Springboard

- Developed and deployed a cloud-based **Azure capacity-planning AI system**, achieving **84.7% prediction accuracy**.
- Architected data pipelines integrated with Azure DevOps CI/CD, reducing deployment time by **12%**.
- Applied hyperparameter tuning and grid search, reducing overfitting and improving **F1-score by 19%**.

Education

S. A. Engineering College Chennai, India

B.E. Computer Science – AI & Machine Learning | *CGPA:* ***8.0/10***

2022 – 2026

Projects

FIFA Player Performance & Economic Analytics *Power BI, Python*

- Analyzed **18,000+ players** (2015–2024) using interactive Power BI dashboards.
- Visualized **Top-10 selections and position-wise KPIs**, improving selection accuracy by **25%**.

Azure Demand Forecasting *ARIMA, LightGBM, LSTM, Azure*

- Forecasted cloud consumption using **ARIMA, LightGBM and LSTM**, achieving **80–90% accuracy**.
- Automated **forecast-vs-actual analysis** with Power BI, enabling **20–30% faster** resource insights.

AI Mail Manager for Everyone *Flask, Streamlit, GPT-4, RAG*

- Built AI email platform for prioritization and response generation across **1,000+ monthly emails**.
- Implemented **RAG, sentiment analysis and vector search**, reducing response time by **70%**.

Brain Tumor Detection System *PyTorch, CNN, Streamlit*

- Classified **4 brain tumor types** using CNNs trained on **44,000 MRI images**, achieving **91% accuracy**.
- Built a **real-time Streamlit interface** for MRI-based tumor prediction and visualization.

Certifications

- **Microsoft Certified: SQL AI Developer Associate**
- **Machine Learning Specialization** – DeepLearning.AI / Andrew Ng (2024)
- **Deep Learning for Natural Language Processing** – IIT Kharagpur (2025)

Achievements

- **Runner-Up**, Nexus 2024 Project Expo (IEEE Society) for Deepfake Detection with **89% accuracy**.
- **Qualified TCS NQT**, scoring **84% in Data Structures & Algorithms**.
- Solved **150+ LeetCode problems**, passing over **98%** of provided test cases.

GitHub | Kaggle | Leetcode