

Mahendran B

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SUMMARY

AI/ML Engineering Graduate specializing in scalable ML systems, GenAI workflows, and production deployments. Hands-on experience with Python, TensorFlow, PyTorch, LangChain, and RAG pipelines, delivering up to 19% model performance improvements and deploying cloud-based solutions using Azure, Docker, and Kubernetes.

EDUCATION

2022 - 2026 B.E - **Computer Science**(Specialization in Artificial Intelligence and Machine Learning)
at **S. A Engineering College** (CGPA: 8.0/10)

WORK EXPERIENCE

Infosys Springboard - AI intern August 2025 - October 2025

- Developed and deployed a cloud-based AI system for Azure capacity planning, improving prediction accuracy to 84.7%
- Architected and validated data pipelines, integrating with Azure DevOps CI/CD pipelines, ensuring data ingestion, processing, and storage, leading to 12% reduction in deployment time
- Enhanced AI model performance through hyperparameter tuning and grid search, reducing overfitting and achieving 19% improvement in F1-score.

Generative AI Research Intern – TekWissen December 2025 - Present

- Formulated and evaluated Generative AI workflows focusing on accuracy, latency, and system reliability and improving output consistency by 15%
- Executed comprehensive functional and regression testing on LLM-based systems, identifying and resolving 15+ critical bugs across prompt handling and output validation pipelines, reducing error recurrence rate by 30% in subsequent release cycles.
- Engineered and tested in containerized environments (Docker, Kubernetes) for scalable deployment, focusing on resolving performance bottlenecks, leading to 13% faster processing times

SKILLS

Programming Languages:	Python, SQL, C++, R,Java
Concepts:	Statistical Analysis, Exploratory Data Analysis (EDA), KPI Tracking
Deployment:	Spring Boot, Flask
Databases:	MySQL, MongoDB, ChromaDB
Cloud Tools:	Google Cloud Platform (GCP), Azure, Docker, Kubernetes
ML Libraries:	TensorFlow, PyTorch, Scikit-learn, Open-CV, ML-flow ,HuggingFace, LangChain, Transformers
Data Analytics:	Power BI, Pandas, Seaborn, Matplotlib

PROJECTS

FIFA Player Performance & Economic Analytics [Link](#)

- Designed interactive Power BI Football Players dashboards to visualize performance data of 18,000+ football players (2015 to 2024), highlighting key metrics for different player positions.
- Created a detailed visualizations for top 10 player selections and KPIs, Improved player selection accuracy by 25% using KPI-driven dashboards

Azure Demand Forecasting [Link](#)

- Built an Azure-based consumer demand-forecasting system using time-series models (ARIMA, Light-GBM, LSTM) on historical cloud-consumption data with 80-90% accuracy
- Designed an automated data pipeline and Power BI dashboard to visualize forecast vs actual usage and KPIs, enabling 20–30% faster identification of over-/under-utilized resources

AI Mail Manager for Everyone [Link](#)

- Architected and Implemented an AI email management platform using Flask, Streamlit, and OpenAI GPT4, enabling intelligent prioritization, automated response generation, and real-time analytics for 1,000+ monthly emails.
- Implemented advanced features , including contextual responses based on **RAG**, sentiment-aware analysis and search of the knowledge base vector, Decreased the average customer response time by 70%.

Brain Tumor Detection System [Link](#)

- Modeled a Brain Tumor Detection System using PyTorch and Streamlit, achieving 91% accuracy in detecting the four types of brain tumors from MRI scans.
- Optimized a CNN model on a balanced dataset of 44,000 MRI images and Built a user-friendly interface for real-time diagnostics.

ACHIEVEMENTS

- Secured Runner-Up at Nexus 2024 Project Expo Hackathon (IEEE Society) for the Deepfake Detection Project with achieving 89% accuracy, recognized for its AI-driven approach to combating digital misinformation.

CERTIFICATIONS

Python Programming by Hackerank -[To View](#)

Advanced R Programming for Data Analytics in Business IIT Kanpur -[To View](#)

Machine Learning Specialization by DeepLearning.AI (Andrew Ng) -[To View](#)

Deep Learning for Natural Language Processing by IIT-Kharagpur -[To View](#)

LINKS

[GitHub](#) | [Kaggle](#) | [HackerRank](#) |