Guruprasath Maheswaran

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Education

Amrita Vishwa Vidyapeetham   **October 2021 - Present**

Bachelor of Technology, Computer Science & Engineering   Coimbatore, India

Experience

Amazon ML Summer School 2024, Amazon   **July 2024 - Aug 2024**

- Selected for an ML program guided by **Amazon scientists** from over 20,000+ applicants.
- Discovered how **Gen AI** and **LLMs** boosted operational efficiency at Amazon by 20%.

Project Contribution: SAP LABS, India   **Feb 2024 - Apr 2024**

- Revamped **SAP Concur** with a team of 6, improving UX and adding critical business features.
- Built a **web app** with Next Js, Express Js, hosted on Azure (99.9% uptime), with API testing.

Projects

Explainable AI in Health Care | Python, TensorFlow, Keras, Matplot, HPC **| GitHub**

- Improved CNN transparency with Explainable AI **(XAI)** techniques, achieving a 40% increase in interpretability ratings from user studies. Currently **under conference review**.
- Focused on feature extraction, implemented Grad-CAM**,** and achieved a **60% reduction** in **processing time** using HPC resources with all documented statistics for reference.

Trip Estimation Application | Next.js, Express.js, Tailwind CSS, MySQL, Postman, Azure VM **| Frontend - GitHub**, **Backend** - **GitHub**

- **Led a 6-member team** to successfully develop a scalable trip cost estimation app using microservices and distributed software architecture principles including software releases.
- Implemented **role-based authentication** (appliers and approvers) with dual-interface redirection using **PASETO,** and optimized DBMS strategies, improving performance by 30%.

Cardio Alert | Python, Scikit-learn, NumPy, Pandas, Matplotlib **| GitHub**

- Engineered a high-accuracy heart attack prediction model (>98%) focused on **minimizing false negatives**, using rigorous debugging and advanced feature engineering.
- **Created data visualization** to show relationships between medical variables and heart disease risk, achieving a 35% increase in comprehension and a 20% boost in workflow efficiency.

Skills

Languages and Frameworks: C, C++, Python, Java, MySQL, PostgreSQL, HTML, CSS, JavaScript, Bootstrap, React, Express Js, Next Js, Tailwind CSS, Scikit-learn, TensorFlow, Keras, LangChain

Tools and Technologies: Git, GitHub Actions CI/CD, Linux, Visual Studio, Figma, Hugging Face, Azure VM, Aceternity UI, Streamlit, Postman, Docker, Kubernetes, Unity, Blender, AutoCAD

Extracurricular

➔ **Event Manager:** Organized the **Intel OneAPI Hackathon** under **IETE**, with prices worth ₹1,25,000.
➔ **Workshops Organizer:** Coordinated workshops while networking with **industry professionals**.
➔ **Project Manager:** Managed communication and client support as **SPOC** for an SAP project.