

# Guruprasath Maheswaran

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## Education

### Amrita Vishwa Vidyapeetham

Bachelor of Technology, Computer Science & Engineering

October 2021 - Present

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 **RESTful web app** with Next Js, and Express Js, hosted on Azure (99.9% uptime).

## 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 documentation and 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 develop a scalable trip cost estimation app, with a strong emphasis on **Agile software development** for efficient releasing, testing, and solutions.
- 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, advanced feature engineering, and writing reports.
- 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, Haskell, MySQL, PostgreSQL, HTML5, CSS, Sass, JavaScript (ES6), Bootstrap, React, Express Js, Next Js, Jest, Tailwind CSS, LangChain

**Tools and Technologies:** Git, GitHub Actions CI/CD, Linux, Visual Studio, Figma, Hugging Face, Azure VM, Aceternity UI, Postman, REST, GraphQL, Cypress, Docker, Streamlit,

## Extracurricular

- **Event Manager:** Organized the **Intel OneAPI Hackathon** under **IETE**, with prizes 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.