

# Guruprasath Maheswaran

[Github](#)[LinkedIn](#)[www.guruprasath.tech](http://www.guruprasath.tech)

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## Education

**Amrita Vishwa Vidyapeetham****October 2021 - Present**Bachelor of Technology, Computer Science & Engineering | **CGPA: 7.28**

Coimbatore, India

## Experience

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

- Participated in an ML learning program guided by **Amazon Scientists**.
- Gained expertise in ML topics essential for career preparation, including **Gen AI** and **LLMs**.

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

- Enhanced **SAP Concur** with a team of 6, improving UX and adding professional features.
- Worked with Next.js and Express.js, deployed on Azure, and tested APIs with Postman.

## Projects

**Explainable AI in Health Care** | Python, TensorFlow, Keras, Matplot, HPC | [GitHub](#)

- Contributed to enhancing Convolutional Neural Networks (**CNNs**) efficiency and interpretability through **XAI** development, currently under review for **conference submission**.
- Specialized in **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 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](#)

- Trained a high-accuracy heart attack prediction model (>97%) focused on **minimizing** false negatives, using rigorous **debugging** and advanced **feature engineering**.
- Utilized **data visualization** to illustrate relationships between medical variables and heart disease risk, enhancing **audience comprehension** and aligning with healthcare workflows.

## Skills

**Languages and Frameworks:** Python, C++, Java, SQL, PL – SQL, HTML, Markdown, CSS, JavaScript, Bootstrap, React, Express.js, Next.js, Tailwind CSS, Scikit-learn, TensorFlow, Keras, LangChain**Tools and Technologies:** Git, GitHub, GitLab, GitHub Actions CI/CD, Anaconda, Hugging Face, Figma, My SQL, Azure VM, Aceternity UI, Streamlit, Postman, Docker, Star UML, Unity, Blender, AutoCAD.

## Extracurricular

- **Event Manager: IETE Club**, organized numerous prestigious technical events and workshops.
- **Workshops Organizer:** Anokha 2024 (Amrita Techfest), coordinated **logistics and content**.
- **Project Management:** Managed communication and client support as **SPOC** for an **SAP project**.