

# Guruprasath Maheswaran

[Github](#)

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## Education

Amrita Vishwa Vidyapeetham

October 2021 – June 2025

Bachelor of Technology, Computer Science & Engineering | CGPA: 7.28

Coimbatore, India

## Experience

Amazon ML Summer School 2024, Amazon

July 2024 – Present

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

Project Contributions: 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, presenting findings at **MICCAI 2024**.
- Specialized in **feature extraction**, implemented **Grad-CAM** to enhance model interpretability, and **achieved a 60% reduction in processing time** by utilizing HPC resources.

Trip Estimation Application | Next.js, Express.js, Tailwind CSS, MySQL, Postman, Azure VM |  
Frontend - [GitHub](#), Backend - [GitHub](#)

- Led a 6-member cross-functional team to build a full-stack web application for trip cost estimation during reimbursements, ensuring scalability with **distributed systems concepts**.
- Implemented **role-based authentication** with dual-interface redirection and **achieved a 30% performance improvement** through **Next.js server-side rendering**.

Heart Attack Predictor Project | Python, Scikit-learn, NumPy, Pandas, Matplotlib | [GitHub](#)

- Trained a high-accuracy heart attack prediction model (**>96%**) through extensive algorithm testing and innovative **feature engineering**.
- Utilized **data visualization** to illustrate relationships between medical variables and heart disease risk, aiding **diverse audience comprehension**.

## Skills

**Languages and Frameworks:** Python, C++, Haskell, HTML, Markdown, CSS, JavaScript, Bootstrap, React, Express.js, Next.js, Tailwind CSS, Scikit-learn, TensorFlow, Keras.

**Tools and Technologies:** Git, GitHub, GitLab, GitHub Actions CI/CD, Anaconda, Figma, Azure VM, My SQL, Postman, Docker, Star UML, Unity, Blender, AutoCAD.

## Extracurricular

- **Event Manager: IETE Club**, orchestrated numerous prestigious technical events and workshops.
- **Workshops Organizer:** Anokha 2024 (Amrita Techfest), coordinated **logistics and content**.
- **Project Management:** Managed project communication and backlog as the **SPOC** for SAP's project.