

# Guruprasath Maheswaran

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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 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, currently under review for **conference submission**.
- Specialized in **feature extraction**, implemented **Grad-CAM** to enhance model interpretability, and **achieved a 60% reduction in processing time** using HPC resources.

**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 computing principles**.
- Implemented **role-based authentication** (appliers and approvers) with dual-interface redirection using **PASETO** and optimized SQL queries, **improving performance by 30%**.

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

- Trained a high-accuracy heart attack prediction model (>96%) focusing on **minimizing** false negatives, using rigorous algorithm testing and advanced **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, My SQL Azure VM, Aceternity UI, 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 project communication and backlog as the **SPOC** for SAP's project.