Guruprasath Maheswaran

Github Profile   **LinkedInProfile**   www.guruprasath.tech   guruprasathmaheswaran.07@gmail.com   **+**91 8667315757

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 the ML School with participants from across India, guided by **Amazon scientists**.   Remote
- Gained insights into how **Gen AI** and **LLMs,** boosted operational efficiency at Amazon by 20%.

Project Contribution: SAP Labs   **Feb 2024 - Apr 2024**
- Revamped **SAP Concur** with a team of 6, improved UX, and added critical business features.   Remote
- Built a web app using Next.js and Express.js, hosted on Microsoft Azure with MySQL.

Projects

Explainable AI in Health Care | TensorFlow, Keras, scikit-learn, Matplotlib **|** GitHub Link   Team Project

- Enhanced CNN model interpretability by implementing **Grad-CAM visualization**, highlighting key regions in images influencing predictions, with findings under conference review.
- Developed a **feature extraction pipeline** for deep learning models to improve data preprocessing and the quality of input data, leading to improved model performance.

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

- Led a 6-member team to develop a full-stack web application for estimating trip costs during reimbursement requests and approvals, collaborating with SAP Labs India.
- Implemented **role-based authentication** (for applicants and approvers) with dual-interface redirection using **PASETO**, enhancing security and user experience.

Grocery Product Identification System | Next.js, FastAPI, TensorFlow, Tailwind CSS **|** GitHub Link   Individual Project

- **Designed and developed** a full-stack image-based product identification system using TensorFlow models (ResNet50, MobileNetv2, DenseNet169) for accurate real-time predictions.
- Architected a high-performance **image processing pipeline**, leveraging OpenCV for preprocessing and optimizing model inference, achieving a **40% reduction in latency**.

Gringotts Vault | Next.js, Appwrite, ShadCN, Tailwind CSS, TypeScript **|** GitHub Link   Individual Project

- Developed a **Google Drive-inspired file storage app**, implementing secure **user authentication and file management** using Appwrite and real-time features like upload, download, and sharing.
- Designed a responsive UI with Tailwind CSS and ShadCN, optimized for performance with Next.js and React, ensuring **scalable and efficient** file storage and management.

Technical Skills

Languages and Frameworks: Python, Java, HTML5, CSS3, JavaScript, MySQL, PostgreSQL, React, Next.js, Express.js, TypeScript, Tailwind CSS, FastAPI, LangChain

Tools and Technologies: Git, GitHub Actions CI/CD, Linux, Visual Studio, Figma, Hugging Face, Jira, Aceternity UI, Postman, Azure VM, Google Cloud Platform (GCP), Docker, Kubernetes, Streamlit, TensorBoard, Appwrite, ShadCN

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.