

H Dharshan

✉ dharshan080622@gmail.com in LinkedIn 🌐 Github 📁 Portfolio

Summary

Ambitious Computer Science undergraduate skilled in full-stack development, AI, and machine learning. Proven track record of delivering innovative projects at hackathons and in collaborative teams. Passionate about building scalable solutions using modern web and AI technologies.

Education

Amrita Vishwa Vidyapeetham, Coimbatore

Aug 2024 – Aug 2028

B.Tech in Computer Science

- CGPA: 8.68

Experience

Hackathon Experience

Jan 2025 – Apr 2025

- Participated in 5 hackathons (2 national, 3 college-level), building innovative solutions in AI, web development, and deep learning during intense 12–48 hour sprints.
- Collaborated in diverse teams, gaining hands-on experience with React, Node.js, Express, MongoDB, and real-time API integrations.

Projects

FlixTogether: *React.js, Express.js, AppWrite, IMDb API, Vercel (Mar 2025)*

[GitHub Repository](#) 

- Designed a collaborative movie recommendation platform that analyzes group preferences using a proprietary weighted consensus algorithm to solve the common problem: What to watch together?
- Developed during Hack101 in a team of three; the project won 1st place for innovation and technical execution.
- Architected a scalable full-stack solution with the React.js/Vite front-end and Express.js back-end, implementing RESTful APIs and real-time data synchronization with AppWrite for trending movies.

ExamGenius: *React.js, Express.js, Gemini-API, Groq, Tavily (Mar 2025)*

[GitHub Repository](#) 

- Built an intelligent educational platform using Google Gemini AI to automatically generate personalized study plans, curated learning resources, and contextually relevant practice materials, reducing the study preparation time by 80% for students.
- Created collaboratively during a group hackathon focused on AI-driven educational tools, showcasing the integration of multiple AI APIs and a scalable back-end.
- Implemented secure user authentication and session management using JWT tokens with Express.js backend, featuring role-based access control and encrypted data transmission for institutional compliance.

Symbol Classifier: *Python, PyTorch, CNN, Jupyter Notebook (Mar 2025)*

[GitHub Repository](#) 

- Trained a Convolutional Neural Network to classify handwritten mathematical symbols with 86% + precision using TensorFlow and custom dataset preprocessing.
- Implemented data augmentation and hyperparameter optimization to improve model performance and reduce overfitting.
- Our team formulated the model during a hackathon focused on computer vision and deep learning, and analyzed the training progress using Matplotlib visualizations that tracked accuracy and loss across epochs.

Skill Set

Programming Languages: C, Python, Java, JavaScript

Frameworks: React.js, Node.js, FastAPI, Express.js

Databases: MongoDB

Tools: Git, GitHub, Linux, Figma, VS Code, Da Vinci Resolve