

S V Preethi

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EDUCATION

PM SHRI Kendriya Vidyalaya MG Railway Colony

10th Std – 95.2% — 12th Std – 84.2%

Bengaluru, Karnataka

2021 (10th) , 2023 (12th)

JSS Academy of Technical Education

B.E. in Artificial Intelligence and Machine Learning — CGPA: 9.5

Bengaluru, Karnataka

2023 – 2027

Indian Institute of Technology Madras

B.S. in Data Science and Applications

Chennai, Tamil Nadu

2023 – 2027

EXPERIENCE

Freelance Web Developer & Designer

Aug 2026 – Present

Independent

- Designed and developed websites, posters, textbooks, and digital creatives for clients across India using an Agile workflow.

Designer

May 2026 – Aug 2026

Samparkisu Private Limited

- Designed educational learning materials in Canva while managing requirements, revisions, feedback, and quality checks.

Project Intern

Sep 2025 – Mar 2026

Resonav Solution LLP

- Built a full-stack AI research platform for multi-agent paper retrieval, analysis, and report generation using RAG, React, Node.js, FastAPI, Qdrant, Redis, Socket.io, and Neon DB.

PROJECTS

Smart Helmet — AI Road Safety System | *Edge AI, Computer Vision, React Native*



- Architected an IoT smart helmet integrating ESP32, Node.js, and React Native for real-time accident detection, impact analysis, and automated GPS-enabled SOS response.
- Implemented IMU-based <1s crash detection, YOLOv8/EasyOCR for 94%+ accurate pothole, traffic violation, and license-plate detection, plus hands-free voice assistance and garbage reporting.

Guardian 360 — AI-Powered Elderly Care System | *Edge AI, Machine Learning, Gait Analysis*



- Developed a wearable-based elderly care system using sensor data and ML for fall prediction, gait and cognitive activity analysis, with real-time safety monitoring.
- Integrated medication reminders, geofencing, location tracking, caregiver alerts, and automated voice-based emergency workflows for proactive elderly care.

ACHIEVEMENTS

Google Solution Challenge 2026 : Top 14 teams nationwide among 85,000+ applicants

[Certificate]

1st Place - Hackathon : Sir M. Visvesvaraya Institute of Technology – Among 85 teams

[Certificate]

2nd Place - Ideathon : MAKEFORBENGALURU Makeathon, RVCE – Among 45 teams

[Certificate]

2nd Place - Hackathon : Rajarajeshwari College of Engineering – Among 100 teams

[Certificate]

PUBLICATIONS

A Systematic Literature Review of AI-Powered Legal and Financial Assistance Systems: Approaches, Challenges, and Future Directions

[View Article]

TECHNICAL SKILLS

Full-Stack Development: Python, Java, JavaScript/TypeScript, React.js, Node.js, Flask, FastAPI

AI/ML & Computer Vision: PyTorch, TensorFlow, OpenCV, YOLO, RAG, Generative AI

Databases: PostgreSQL, MongoDB, SQLite, Pinecone

Cloud & DevOps: Git, Docker, AWS, Google Cloud

Design Tools: Adobe Illustrator, Photoshop, Figma, Canva, Affinity by Canva

Course Work: Data Structures Algorithms (DSA), Object Oriented Programming(OOP), System Design, Operating Systems (OS), Database Management Systems (DBMS), Computer Networks(CN), Machine Learning, Artificial Intelligence (AI), Image and Video processing, Software Engineering & Project Management, Data Visualization(Tablu, PowerBI, Advanced MS Excel), Big Data Analysis

EXTRACURRICULARS

Student Placement Coordinator, JSSATE-B: Coordinated student placement activities and communication

Head of Graphics Team, Diplomacia Society (IITM BS): [View Certificate] Led graphics and social media design

Marketing Director, AWS Student Builder Center, JSSATEB: [View Badge] Managed Promotions and Outreach

Public Relations, Google Developer Group JSSATEB: Managed Instagram page and contributed to audience growth

Volunteer Educator, U&I Trust: [View certificate] Tutored underprivileged children and supported academic growth.

CERTIFICATIONS

19 GCP Skills Badges

IIT Madras DS – Foundation Level

Prompt Engineering for GenAI