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Education

Sahyadri College of Engineering and Management, Mangaluru   **Expected 2027**
B.E. in Computer Science (Artificial Intelligence & Machine Learning)   **CGPA: 9.46**

Experience

Einstein Labs   **Jan 2026 – Ongoing**
AI Engineer Intern
Working on AI agents, orchestration systems, and product development, contributing to scalable AI infrastructure and cross-product solutions.

Research and Innovation

Multimodal Knowledge Fusion for Arecanut Quality Assessment Manuscript In Preparation

Developing a multimodal CNN for arecanut quality assessment integrating RGB and X-ray imagery through structured fusion strategies, achieving 99.70% accuracy under controlled conditions. Implemented in Python using PyTorch and TensorFlow with standardized preprocessing and evaluation.

Projects

SynergySphere — Team Collaboration Platform — React, FastAPI, MySQL

- Built a full-stack collaboration platform with project management, task tracking, and role-based access control.
- Implemented JWT authentication, real-time updates via WebSockets, and automated email notifications to enhance team efficiency.

Orchestration Agent — Multi-Agent AI System, TDD, Gemini/OpenAI

- Built an autonomous multi-agent system that plans, generates, tests, debugs, and self-corrects code using a strict Test-Driven Development (Plan → Code → Test → Fix → Verify) workflow.
- Designed specialized agents (Planner, Coder, Tester, Fixer, Judge) with structured communication via Pydantic schemas, dual-LLM support (Gemini/OpenAI), rate-limit handling, and sandboxed execution with detailed logging.

AI Health Tracker — React, Node.js, MongoDB

- Created an AI-powered health monitoring application to track activity, diet, sleep, mood, and stress levels.
- Provided AI-driven insights, including risk assessment and personalized diet planning, through an interactive dashboard.

Skills

Languages: Python, SQL, Java, C/C++, HTML/CSS, JavaScript.
Frameworks & Libraries: PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, React, Node.js, Express.js.
Databases & Stack: MongoDB, MERN Stack.
AI, ML & Data Science: Machine Learning, Deep Learning, Data Science, Data Analysis, Data Visualization, Feature Engineering, Model Training & Evaluation, Predictive Modeling.
Tools & Platforms: Git, GitHub, Jupyter, Vercel, MongoDB Atlas, Postman, n8n, Microsoft Power BI, Figma, Miro, Canva.
Soft Skills: Strategic Thinking, Problem-Solving, Collaboration, Leadership, Clear Communication, Teaching & Mentoring, Technical Writing.

Achievements

Chair, IEEE Computational Intelligence Society   **2025 – Present**
Manage chapter activities, coordinate events, and promote research and learning initiatives in computational intelligence. Facilitate student participation in competitions at institutional and external levels.