

KARRI PUJITH SRI SAI

10pujith@gmail.com | +91-7989625748 | github.com/pujith10 | linkedin.com/in/karri-pujith-sri-sai

Aspiring Full-Stack Developer | Backend Engineer | AI/ML Engineer | Software Developer

Experience

Smart India Hackathon – Space Mission Failure Prediction System <i>React, Node.js, MongoDB, Python, Machine Learning</i>	2024
AI/ML Project Developer – Drone-Based Student Identification System <i>Python, PyTorch, OpenCV, CNNs</i>	2023

• Developed an end-to-end framework to monitor space missions and predict potential mission failures using machine learning models.

• Designed and deployed a prediction system achieving 98% accuracy on validation datasets.

• Built real-time React dashboards with optimized alert flows, improving monitoring efficiency and UI responsiveness.

• Developed a real-time student identification system integrated with a drone for university surveillance.

• Designed and assembled the drone platform to support real-time monitoring and onboard AI integration.

• Optimized the inference pipeline, reducing recognition latency by ~35% while maintaining detection reliability in dynamic environments.

Projects

Smart India Hackathon-Intelligent Space Mission Monitoring System (React, Node.js, MongoDB, Machine Learning)	2024
• Built a full-stack monitoring platform to analyze mission parameters and predict potential failures.	
• Developed RESTful APIs using Node.js and integrated MongoDB for real-time mission data storage.	
• Designed responsive React dashboards and implemented an ML model achieving 98% prediction accuracy.	
Rubik's Cube Interactive Web Application (React, JavaScript, Vite)	2024
• Developed an interactive Rubik's Cube simulator with dynamic state management and rotation logic.	
• Optimized component rendering to improve UI responsiveness and performance.	
• Deployed the application using Vercel with production-ready build configuration.	
Quantum AI Blog Website (HTML, CSS, JavaScript, GitHub Pages)	2024
• Built a modern, responsive blog website presenting structured technical content on Quantum AI.	
• Enhanced user experience using optimized typography, smooth transitions, and responsive design principles.	
• Deployed on GitHub Pages with cross-browser compatibility and performance optimization.	

Research Experience

Neural Machine Translation for Low-Resource Indian Languages: English–Telugu and English–Tamil Using Meta’s NLLB	Nov 2025
• Adapted Meta’s NLLB-200 model for Telugu & Tamil languages by addressing morphological richness and token alignment challenges.	
• Optimized decoding and preprocessing to improve BLEU and ChrF++ scores.	
NC2X: Neuro-Symbolic Framework for Causal and Context-Aware Explainability <i>Under Review – IEEE INDIACom</i>	Nov 2025
• Proposed a hybrid neuro-symbolic architecture combining visual perception with structured relational reasoning.	
• Introduced a causal intervention strategy using visual masking, observing >52% confidence variation to quantify contextual dependence.	

Certifications

- **Full-Stack Web Development Certification — 2024**
Built dynamic, database-driven web applications using HTML, CSS, Bootstrap, JavaScript, PHP, and SQL.

Technical Skills

Programming: Python, C++, JavaScript, DSA
AI/ML: PyTorch, CNN, Model Training, Computer Vision, Data Preprocessing
Frontend: React, HTML, CSS, Tailwind CSS, Bootstrap, ThreeJS
Backend & Databases: MongoDB, SQL, NodeJS, ExpressJS, REST APIs, Vite
Tools: Git, GitHub, VS Code, Vercel, AntiGravity, Postman

Education

B.Tech in Computer Science and Engineering (AI/ML) Bennett University CGPA: 8.21 / 10	2023 – 2027
--	-------------