

Jaswanth Krishna Padarthi

Aspiring AI Engineer & Creative Technologist | Story-driven Builder | Student

📍 India | 🌐 <https://jkpadarthi.github.io/portfolio>

About Me

A curious and inventive Computer Science student with a specialization in Artificial Intelligence and Machine Learning.

I thrive at the intersection of code and creativity—designing offline-first systems, story-driven interfaces, and embedded AI experiences.

My projects reflect a deep passion for narrative-infused technology, where each build tells a story, serves a purpose, and challenges conventional design.

I'm constantly exploring how we can push the boundaries of what small hardware, edge AI, and a little imagination can do together.

Education

Vellore Institute of Technology

B.Tech in Computer Science & Engineering with Specialization in AI & ML

Expected Graduation: 2027

Mathrusri Junior College

Intermediate

Graduation: 2021-2023

Technical Skills

Languages: Python, JavaScript, C/C++

Frameworks/Tools: ReactJS, Flask, Node.js, TensorFlow, PyTorch

Hardware: Raspberry Pi 3B+, ESP32, Microcontrollers

Dev Tools: Git, TinkerCAD, VS Code, Bash

Concepts: AI/ML, Edge AI, Embedded Systems, Full-stack Development, Offline Systems, Storytelling in Tech

Projects

- ChronoSolus Pomodoro

A themed Pomodoro timer from the ChronoSolus universe, featuring adaptive soundtracks and lore integration for immersive productivity.

- AI Dungeon Master (Offline RPG)

A locally running, multiplayer, D&D-style game system powered by offline AI (GPT-J, Vosk, Coqui), with dynamic map gen, procedural dialogue, branching storylines, and adaptive factions. Designed for LAN-based offline play.

- MindMirror

A Raspberry Pi-based personal dashboard for students. Displays tasks, Pomodoro sessions, burnout level, schedules, notes, mood graphs, and a journal timeline with an adaptive UI.

- KuroTech Dashboard

A Flask-based sci-fi themed system dashboard inspired by Wuthering Waves' 'Black Shores' aesthetic. Features AJAX auto-refresh, Vivobook and Pi system stats, and dynamic design.

- Offline Voice Assistant (Telugu)

Built with Vosk and local translation models, this assistant converts Telugu speech to English and passes it to a local AI model for response generation.

Highlights

- Designed AI projects with unique lore and dynamic interfaces
- All major AI runs offline (no cloud dependency)
- Created immersive, story-based experiences with hybrid game mechanics
- Loves experimenting with embedded systems, storytelling, and interface design