Deeraj Chowdary

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PROJECTS

Medicontrol

A medicine dispenser for the elderly and the needy.

- Conducted requirement analysis and integrated Firebase for real-time data sync between the web app and Raspberry Pi 4.
- Modeled 3D dispenser components in Blender, using Raspberry Pi 4 as the CPU.
- Implemented sliding doors with SG90 motors and limit switches
- Developed a web app for doctors to manage dispensers from a centralized dashboard.
- Added a display for user interaction, showing medication schedules, dosage, and dispensing status
- Co-authored a research paper with three team members, submitted at the 2024 IEEE World Conference on Applied Intelligence and Computing, receiving positive feedback from peers.

Arx

A blockchain-centered REIT application.

- Formulated and maintained project plans and schedules, completing the project 2 weeks early.
- Directed a team of front-end developers to build a captivating UI.
- Guided backend developers through the build stages of the server application.

Cognisyn

A Code generation plugin in terminal

- Managed project workflow for effective development.
- Built the plugin using the OpenAI API, leveraging advanced technology to enhance capabilities, which resulted in a more than 50% increase in code generation accuracy calculated using a confusion matrix.
- Constructed a user-friendly website for the plugin, allowing a better user experience.

EDUCATION

Manipal University Jaipur *Jaipur, Rajasthan* **July 2025**

Btech, Computer science
- Honors in Artificial Intelligence and Machine learning
- Team lead of 3 Hackathon arranged by the college.
- Member of the University Powerlifting Team getting gold twice in the same year.

SKILLS

Programming Languages: Rust, JavaScript, Python, C, HTML, CSS, Bash
Libraries & Tools: Git, GitHub, React, Vue, Flask, Figma, Vim, Three. JS, SCSS,
Technical Skills: Shell Scripting, Machine Learning, CLI Tools, IoT, Linux, Algorithms
Soft Skills: Active Listening, Collaborative Effort, Creative Thinking

CERTIFICATIONS

- Database Foundations - Oracle Academy