Deeraj Chowdary

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Education

Manipal University – B.Tech in Computer Science & Engineering (Artificial Intelligence & Machine Learning)

Present

Projects

Calru - Math Interpreter

github.com/rufevean/calru

- a custom interpreted language supporting a range of arithmetic operations and features.
- Implemented essential interpreter components, including error checking, expression evaluation, and a command-line interface (CLI).
- Designed and executed 20+ comprehensive tests to thoroughly validate each phase of the interpreter, ensuring reliable and accurate execution.
- Actively expanding the language to support advanced mathematical operations and complex syntax parsing.

Medicontrol - Medicine Dispenser for the Elderly

medicontrol.app

- Conducted requirement analysis and integrated Firebase for real-time data sync between the web app and Raspberry Pi 4.
- Implemented sliding doors powered by SG90 motors and controlled via limit switches for precise operation.
- Developed a web application enabling doctors to manage multiple dispensers through a centralized dashboard.
- Integrated a display for user interaction, providing real-time information on medication schedules, dosage, and dispensing status.

Cognisyn - A Code Generation Plugin in Terminal

github.com/rufevean/cognisyn

- Led the development of a code generation plugin for terminal environments, managing the project workflow to ensure efficient progress.
- Built the plugin using the OpenAI API, leveraging advanced technology to enhance functionality and performance.
- Developed a user-friendly website to improve accessibility and the overall user experience.

Volunteer Experience

Contributor, Rustfmt (Rust Language Code Formatter)

pull request

• Fixed a bug in Rustfmt's error messaging by including precise file paths and details, added a new test, and refactored existing tests to resolve conflicts, improving error reporting accuracy.

Contributor, PAL-Tek pal-tek.com

- Collaborated with core developers through meetings to advance the language's development.
- Established a content automation system to streamline workflows.
- Designed and developed a comprehensive website for the programming language, enhancing its online presence and user engagement

Skills

Languages : Rust, C, GFORTH,Python,Javascript,Bash **Libraries & Tools :** Git , Tensorflow,React.js,Vue.js

Technical Skills: Natural Language Processing, Shell Scripting, Compiler Construction, Cli Tools in Linux