Eniya Sre AG

Pursuing B.tech in Computer Science Engineering with specialization in Cyber Physical Systems from Vellore Institute of Technology, Chennai.

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EXPERIENCE

VIT data science Center, Chennai — *AI Research Intern*

May 2024 - November 2024

Currently developing research focused on enhancing AI ethics. Applying machine learning techniques to address ethical considerations in AI algorithms, fostering innovation in responsible AI development.

Tridots, Chennai — *Web development Intern*

Jun 2024 - Jul 2024

Developed and implemented applications using Frappe framework, enhancing proficiency in Python and JavaScript. Created an expense tracker application, improving team efficiency and workflow management. Designed and developed a fashion app using React, contributing to user interface enhancements and performance optimization.

IEEE - Women in engineering, Chennai — *Content Team Member*

Apr 2023 - Feb 2024

IEEE - Women in engineering, Chennai Contributed to content creation initiatives aimed at promoting diversity and inclusion in technology fields. Collaborated with team members to develop engaging articles, blog posts, and social media content highlighting achievements and initiatives within IEEE WIE. Played a key role in organizing and promoting events to empower women in engineering and technology.

EDUCATION

Vellore Institute of Technology, Chennai — *B.tech in Computer Science Engineering with specialization in Cyber Physical Systems*

Sep 2022 - July 2026

PROJECTS

Smart PCOS Diagnostic System — Machine learning

Developed a Smart Polycystic Ovary Syndrome (PCOS) Diagnostic System using advanced machine learning algorithms including Random Forest, Boosted Decision Trees, and Bagged Trees. This system processes patient data to provide accurate, real-time PCOS diagnosis, enhancing diagnostic accuracy and efficiency.

SKILLS

Expert in : C/C++, HTML / CSS, Logical Thinking, Analytical Thinking.

Intermediate in : Java, Python, Javascript, React

AWARDS

Remote Sensing and Digital Image Analysis – Indian institute of Remote Sensing

Certificate for the Completion of Cpp Training – Spoken Tutorial Project, IIT Bombay

Certificate for the Completion of Python 3.4.3 Training – Spoken Tutorial Project, IIT Bombay

Certificate for the Completion of C Training – Spoken Tutorial Project, IIT Bombay

LANGUAGES

Tamil, English, Hindi, French

Thrust Vector Control System — Stability Analysis & PID Control

Implemented a PID controller and transfer function analysis to achieve precise thrust adjustments and stability.Conducted real-world testing to validate system performance and optimize control parameters.

Vision Aid: OCR-Based Text-to-Speech Tool — Machine learning

Engineered an assistive tool that converts printed text into speech using Optical Character Recognition (OCR).Designed for visually impaired users to enhance accessibility and independence.

Drug-Drug Interaction Prediction — AI-Driven Risk Analysis

Developed a machine learning model to analyze and predict interactions between pharmaceutical drugs.Implemented data-driven approaches to enhance drug safety and reduce adverse reactions.

Autonomous Drone for Path Retracting — Simulation & Optical Flow Navigation

Designed and implemented an autonomous drone capable of navigation and path retracing using Gazebo simulation and real-world hardware.Integrated an optical flow sensor for precise movement tracking and obstacle avoidance. Developed and tested flight algorithms to ensure accurate retracing and stability in dynamic environments.