

Pardheev Vatturu

pardheev.vatturu1234@gmail.com | +91 9347369091 | Nellore, Andhra Pradesh

 pardheev-vatturu |  p-art-dheev |  pardheev.dev

OBJECTIVE

Artificial Intelligence and Engineering student with strong interests in Machine Learning and Web Development. A team player eager to contribute to software projects and gain practical experience in a collaborative environment.

PROJECTS

Electricity Load Forecasting using Time Series Analysis Github 2026

- Analyzed 16 years of PJM hourly electricity load data, applying stationarity tests (ADF, KPSS) and ACF/PACF analysis to guide model selection.
- Modeled seasonal trends with SARIMA and captured non-linear dynamics with a SETAR threshold model, tuning parameters via AIC/BIC optimization.
- Built an LSTM network that outperformed classical models, achieving 6.14% MAPE, a 46% improvement over baseline SARIMA.

CodeProctor Github 2025

- Implemented a code evaluation system, tailored for college students with multi-role user management and automated programming assessment.
- Designed responsive UI components with shadcn/ui and Tailwind CSS, including advanced tables supporting thousands of records with real-time pagination.
- Engineered a secure PostgreSQL database layer with input validation and optimized queries for scalable academic data management.

Automated Waste Segregation Using Manipulator Github 2025

- Developed an AI-driven sorting system using a UFactory Lite 6 robotic arm and Vision Transformers to segment and classify waste into four distinct categories (Polythene, Hard Plastic, Metal, Paper).
- Implemented homographic coordinate transformation to map visual data to the robot's workspace, ensuring precise pick-and-place operations for contactless waste handling.
- Integrated a Large Language Model (LLM) to analyze classified items and generate context-specific disposal recommendations (e.g., pyrolysis for plastics), promoting sustainable waste treatment.

EDUCATION

B. Tech, Computer Science & Engineering (AI)	Aug 2023 – May 2027
Amrita Vishwa Vidyapeetham	GPA: 8.25

HSC Andhra Pradesh State Board, PCM	Jun 2021 – May 2023
Krishna Chaitanya Junior College	Percentage: 91.5

SSC, CBSE	Jun 2019 – Mar 2020
Akshara Vidyalaya	Percentage: 90.2

SKILLS

Languages:	Python, C++
Web Development:	HTML, CSS, JavaScript, React, Tailwind CSS
AI & Machine Learning:	Machine Learning, RAG, NumPy, Pandas, Scikit-learn, OpenCV
Core CS Concepts:	Computer Networks, DBMS, Object Oriented Programming
Tools & Platforms:	Git, GitHub