



G Prajwal Priyadarshan

BTech CSE-AI Undergraduate

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EDUCATION

Computer Science Engineering With AI Amrita Vishwa Vidyapeetam

08/2024 - Present
8.69

CGPA :

CERTIFICATES

Supervised Machine Learning: Regression and Classification

<https://www.coursera.org/account/accomplishments/verify/CYK6LUK2FMI>

Python Programming

<https://www.oil.co/mycoursedetail/5012>

RESEARCH PUBLICATIONS

Journal Paper

BESS-Enabled Smart Grid Environments: A Comprehensive Framework for Cyber Threat Classification, Cybersecurity, and Operational Resilience

20 September 2025

Technologies (MDPI)

<https://doi.org/10.3390/technologies13090423>

Journal Paper

Advancing short-term wind power forecasting by AI-driven models for improved accuracy

07 August 2025

Electrical Engineering (Springer)

<https://doi.org/10.1007/s00202-025-03295-1>

INTERESTS

AI-Driven Product Development

Communication & Outreach Activities

Learning mobile app development (Flutter) and full-stack web development (MERN)

Exploring new technologies and emerging trends in software and AI

Innovative Software & UI/UX Design

SKILLS

Domains: Smart Grid Cybersecurity, Bioinformatics, Forecasting Models

Tools: Git, Linux/Kali, Arduino

Databases: MongoDB (NoSQL)

Web Development: HTML, CSS, JS, Flask, Streamlit, Flutter, MERN

Languages: Python, C, JavaScript

ML/DL: TensorFlow, PyTorch, Time-Series Forecasting, Reinforcement Learning, ADMM

PERSONAL PROJECTS

Fitness Management System

- A full-stack gym management app built using Flask and MongoDB for member tracking, schedules, and analytics.

Smart Grid Cybersecurity Research

- Research contribution analyzing cyber threats and resilience measures in smart grid systems, published in MDPI.

Burglar Alarm (Arduino Uno)

- A hardware security prototype using Arduino, PIR sensors, RFID authentication, and Bluetooth alerts to detect intrusions and trigger real-time notifications.

House Price Prediction (ADMM)

- A regression experiment using ADMM to improve generalization and compare prediction performance.

Short-Term Wind Power Forecasting using Deep Learning

- Deep Learning-Based Wind Power Forecasting System with Research Publication

Snake Game — Q-Learning

- A reinforcement learning agent trained via Q-Learning to autonomously play Snake with reward-based optimization.

Real-Time Weather App with JavaScript and OpenWeatherMap API

- This is a simple weather web app built with HTML, CSS, and JavaScript. It lets users enter a city name to fetch real-time weather details like temperature, humidity, and wind speed using the OpenWeatherMap API, with a clean and responsive UI.

LANGUAGES

English

Full Professional Proficiency

Telugu

Full Professional Proficiency

Tamil

Full Professional Proficiency

Hindi

Limited Working Proficiency