

Gulmini Pradhan

AI/ML enthusiast with hands-on experience in building Machine Learning models, IoT systems, Salesforce Service Cloud, and end-to-end application development. I focus on creating impactful solutions, from intelligent automation to predictive analytics, supported by internship and research experience across industry and academia.

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EXPERIENCE

AI Developer

NEMA AI

01/2026 - Present

Hybrid

Process Specialist

Hewlett Packard Enterprise

07/2025 - 12/2025

Bangalore, India

IT Intern

Johnson Controls

02/2025 - 06/2025

Bangalore, India

VRITIKA Project Intern

Accelerate Vigyan, Govt. of India

05/2024 - 07/2024

Rourkela, Odisha

Internship opportunity at NIT Rourkela under the VRITIKA program of Science and Engineering Research Board (SERB), Govt. of India

AI and Full Stack Intern

NEMA AI

01/2024 - 04/2024

Delhi (Remote)

Analyzed AI-driven EEG data models, improving predictions and insights into mental health through advanced machine-learning techniques.

Research Intern

National Institute of Technology Rourkela

09/2023 - 12/2023

Rourkela, Odisha

Gained hands-on experience in sensor technology, IoT, and Arduino programming for smart systems.

Machine Learning Engineer Intern

National Aluminium Company Limited (NALCO)

08/2023 - 09/2023

Bhubaneswar, Odisha

VOLUNTEERING EXP.

IEEE Photonics Society VITC

10/2022 - 05/2025

Chennai

Position and Responsibilities

- Advisory Board Member (07/2024 - 05/2025)
- General Secretary (04/2024 - 07/2024)
- Operations Head (10/2022 - 04/2024)

EDUCATION

B.Tech in Computer Science and Engineering

Vellore Institute of Technology, Chennai

09/2021 - 05/2025

Chennai, Tamil Nadu

SKILLS

Python

Postman API

AI/ML

GIT

R&D

Cloud Platform

Flask

Fast API

Deep Learning

Internet of Things

Data Analysis

SQL

C++

Problem Solving Skills

Identity Access Management

PROJECTS

AI for Emotional Manipulation Detection in Cyber Attacks (12/2024 - 04/2025)

- Developed an AI-powered system that detects emotionally manipulative phishing emails by combining phishing classification with sentiment analysis. Integrated with Gmail to auto-fetch and analyze emails in real-time. The web app highlights emotional triggers like fear or urgency often used in cyberattacks, offering a smarter layer of defense

Tactile Vision: ML-Based Indoor Navigation Aid for Visually Impaired Individuals (07/2024 - 11/2024)

- To develop a wearable assistive device that helps visually impaired individuals navigate indoor spaces independently by providing real-time audio guidance.

Enhanced Employee Leave Management System (EELMS) (08/2023 - 09/2023)

- Developed an ML-driven Leave Forecasting system for National Aluminium Company Ltd., predicting employee leave patterns from historical data, leading to improved workforce management and optimized resource allocation.

RESEARCH AND PUBLICATIONS

AI-Enhanced EEG-Based Personalized Mental Health Solution [IEEE Xplore] (04/2025)

Predicted mental states from EEG data using regression models, achieving 90.33% accuracy for Interest with Emotiv EpocX. DOI: 10.1109/ISED63599.2024.10957201

Advanced IoT-integrated parking systems with automated license plate recognition and payment management [Scientific Reports Journal] (01/2025)

Designed a smart parking system using Raspberry Pi, ESP32, BLE, and OCR to enable real-time slot tracking, license plate recognition, and automated billing with < 5% error margin, enhancing urban parking efficiency. DOI: 10.1038/s41598-025-86441-w

Small-Footprint Keyword Spotting In Smart Home IoT Devices [Springer, Singapore] (06/2023)

The lightweight project can spot the vocal keywords with high accuracy and low latency to monitor the functioning of home appliances in a Smart Home System. DOI:10.1007/978-981-99-1203-2_6

INTERESTS

Odissi Dance (Graduate)

Poetry

Reading

Travel and Cultural Exploration

Fauna Enthusiast