PRAKASH METLA

prakashmetla2020@gmail.com | 8392025573 | prakash.metla2022@uem.edu.in

EDUCATION

UNIVERSITY OF ENGINEERING AND MANAGEMENT, KOLKATA

B.TECH IN COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

2022 - 2026 | Kolkata, WB

Cumulative CGPA: 8.61

(Till 6th Semester)

LINKS

Github:// dip04-eng

HackerRank://@PRAKASHMETLA28

LinkedIn://Prakash Metla

COURSEWORK

Data Structures and Algorithms
Object Oriented Programming
Computer Networks
Machine Learning
Deep Learning

SKILLS

PROGRAMMING

Java • C • Python

Web Development:

HTML CSS

Databases:

MySQL

Machine Learning:

Supervised Learning • Unsupervised Learning • Reinforcement Learning

Deep Learning:

Convolutional Neural Networks (CNN)

• Artificial Neural Networks (ANN)

• Object Detection (YOLO-based)

ACHIEVEMENTS

• CYBER SECURITY & ETHICAL HACKING

• INTERNSHIP(PRODIGY INFOTECH) - MACHINE LEARNING

CERTIFICATIONS

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

| Jun 2024 - present

IOT FOUNDATIONS: OPERATING SYSTEM FUNDAMENTALS

| Sep 2024 – present

PROJECTS

Smart Object Detection

| Oct 2024 - Nov 2024

• Designed and built an autonomous car using Arduino and motors for movement..

• Integrated an ultrasonic sensor for real-time obstacle detection.

• Hardware: Arduino, Ultrasonic Sensor,Raspberry Pi 3 Model B,Computer Vision

Smart Inventory Management System

| Feb 2025 - Feb 2025

• Developed an AI-powered legal education platform to bridge the awareness gap in rural and underserved communities.

• Built a Constitution-based AI chatbot powered by Hugging Face models, and generative AI to provide accurate and up-to-date legal information.

• Integrated vernacular support for multilingual interaction, ensuring accessibility for non-English speakers.

• Added OpenStreetMap integration for AI-assisted location search of nearby legal aid centers.

• Tech Stack: React, Flask, Firebase, Gemini API, Hugging Face, OpenStreetMap, Tailwind CSS, Vercel, Figma, Postman, Ngrok.

RESEARCH WORKS

SUSTAINABLE FISH DISEASE DETECTION AND MONITORING SYSTEM

| Jan 2024 - present

• Developing a real-time fish disease detection system using YOLOv8 and Jetson Nano.

• Integrating Arducam IMX219 for underwater imaging and hardware mechanisms for fish separation.

• Achieved 92% precision and 70% F1-score in initial testing.

• Technology: YOLOv8n, Jetson Nano, Python, FAST API.

INNOVATIVE PLANT DISEASE DETECTION AND CURE THAT DISEASE :

| June 2024 - present

• Utilizes a YOLOv8 model to train and detect plant diseases in real-time.

• The system automatically identifies plant diseases and triggers necessary actions for treatment.

• Hardware: Combines Arduino and Raspberry Pi for seamless operation, using sensors and processing units for disease detection and system control..

• Technology: YOLOv8, Deep Learning, Python, TensorFlow, Computer Vision, Automated Systems.

HOBBIES

• CRICKET •PHOTOGRAPHY •COOKING •VIDEOGRAPHY •TRAVELLING