IBRAHIM M

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MECHANICAL ENGINEER & AI-ML ENGINEER

As a mechanical engineering student, I possess a unique blend of expertise in both Machine Learning and mechanical domains. My academic journey has equipped me with a solid foundation in engineering principles while also delving into the intricacies of Machine Learning applications within this field. Beyond technical prowess, I bring a high level of motivation, coupled with exceptional leadership abilities and strong communication skills.

EDUCATION

Bachelor of Engineering

EXPECTED GRADUATION - 2025

Majors: Mechanical Engineering Chennai Institute of Technology

CGPA: 8.23

PROFESSIONAL EXPERIENCE

MAY 2023 - AUG 2023

AIROSSPACE R&D Pvt Limited AI-ML Engineer Intern

- Implemented YOLO v5 on drones with advanced capabilities for detecting small objects
- Extracted geo-coordinates simultaneously with object detection using integrated GPS technology
- Established a robust network infrastructure facilitating real-time data transfer and coordination among drones
 Engineered customized on-board processing methods to optimize efficient detection and geo-coordinate
 extraction (never achieved before in the context of drone imagery).
- Achieved precise object detection and accurate location mapping within a compact and streamlined framework

CAPCP Engineering Services VAVE Intern

SEPT 2023 - OCT 2023

- The project focuses on cost reduction through vehicle part analysis and comparison, utilizing Value
 Engineering for adaptive designs.
- Real-life driving simulations, enhanced testing, while proposals for material and manufacturing process changes aim to optimize cost efficiencies.

PROJECTS

GPT-2 Fine Tuning

JAN 2024 - MAR 2024

- Proficient in fine-tuning GPT-2 models for specialized tasks, enhancing language generation capabilities. Employed advanced web scraping techniques to extract relevant data from diverse websites, ensuring comprehensive information retrieval.
- Utilized **Tesseract OCR** for precise **extraction of text from images in PDFs**, contributing to improved model understanding of **image-based** content.
- · Achieved successful outcomes, developing models that generate context-aware content based on data.

AJUTOR OCT 2022 - DEC 2022

- A platform for building a **bridge between consumers and manufacturers**. The specific task of this
- platform is to reduce the wastage and reduce over production.
- This platform is also linked with departmental stores and super markets.
- It included basic **Machine learning** algorithm to fulfill the task.

KEY COMPETENCIES

- Time Management
- Data-driven strategic planning
- Financial Management
- Full-Stack Development
- Java, C++, Python, Springboot
- Risk Management skills
- Excellent communication skills
- Prompt Engineer

- Sound Knowledge in MySQL
- Machine learning
- Proficient in Keras, NLTK,
 Deepface, Face Recognition,
 Pytorch, Tensorflow.

LANGUAGE FLUENCY

- ENGLISH PROFESSIONAL PROFICIENCY
- TAMIL NATIVE PROFICIENCY
- HINDI NATIVE PROFICIENCY
- ARABIC PROFESSIONAL PROFICIENCY
- FRENCH CONVESATIONAL PROFICIENCY

SPORT ACTIVITIES

- Athletics
- Volley Ball
- Boxing

RESEARCH PUBLICATIONS

 Utilized YOLOv5 for extracting co-ordinates of sub-centimetric objects on ground from Drone Imagery from an altitude of 20 meters.

EXTRACURRICULAR ACTIVITIES

TEDx SPEAKER

On NET-ZERO

MARTIAL ARTS

District Champion

BEST STUDENT AWARDEE

For Excellence in Both Academics & Sports.

CERTIFICATIONS

- CISCO certified Cyber security CCNA 1 & 2.
- COURSERA certified SQL Data querying.
- SKILLUP certified Full-Stack Development.
- COURSERA IBM certified Introduction to MACHINE LEARNING.