HARSHAD JADHAV

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@Harshad071 /harshad-jadhav

SKILLS

- **Front-end Development** | HTML • CSS • Data Visualization • Tkinter • React
- **Back-end & Databases** | Flask • DBMS (Database Management System)
  • Machine Learning • Artificial Intelligence • Cloud Computing • Deep Learning
  • SQL • MySQL • Express.js • Node.js
- **Soft Skills** | Problem Solving • Presentations • Communication
- **Miscellaneous** |Operating Systems • Redhat Linux (Basic)
  • Dashboard Designing • MATLAB • Web Scraping • IoT • Computer Networks • DSA
- **Languages** | Python • java • javascript • C++

EDUCATION

- Computer Engineering | MIT AOE — *CGPA: 7.54 | (2022-2026)*
- XII | P.D.E.A , Pune — *66.1%| 2022*
- X | VNEMS Tata Motor's ,Pune — *85.4%| 2020*

INTERNSHIP

- **Data Science Intern | Extion Infotech** *(Jul '24 - Sep'24)*
  Developed machine learning models, performed data preprocessing, and implemented computer vision and recommendation systems - Python, Pandas, Scikit-learn, TensorFlow, YOLOv7, OpenCV, Flask, SQL, Machine Learning, Deep Learning.

- **IOT Intern | Origin tech** *(Jun '23 - Jul '23)*
  Developed IoT solutions, integrated sensors, and optimized device communication for real-time data monitoring - Arduino, Raspberry Pi, MQTT, Python, IoT protocols, Sensors, Node-RED, Cloud Integration, Networking.

ACADEMIC PROJECTS

- **RealTime Number Plate and Helmet Detection Project**
  Developed a YOLOv7-based model for number plate and helmet detection, trained with 3,000 helmet and 5,000 number plate images, to support compliance monitoring in road safety applications.

- **Crop Recommendation System Using AIML**
  Developed machine learning models for crop yield prediction and input optimization using Random Forest with up to 97.4% R^2. Applied feature engineering, preprocessing, and regression techniques for high accuracy. Created a Tkinter-based GUI for real-time predictions and recommendations.

- **Real-Time Shock-Absorber Detection (Anand Group of Industries)**
  Sponsored by Anand Motors
  Designed and implemented a real-time system using YOLOv11 to detect shock absorber stages (compression and extension) and calculate the radius with high accuracy. Enabled live monitoring and performance analysis to support predictive maintenance in automotive systems.

- **Advanced Driver Assistance System (ADAS) using Deep Learning**
  Developed a deep learning-based ADAS capable of detecting lanes, vehicles, and pedestrians in real time to enhance driver safety. Utilized convolutional neural networks (CNNs) and object detection models (e.g., YOLOv11) for accurate scene understanding, contributing to collision avoidance and lane-keeping support.

- **Real-Time Disaster Information Aggregation Dashboard**
  Developed a Flask-based web application that aggregates and classifies real-time disaster data from sources like social media and news APIs using keyword filtering and NLP. Implemented a dynamic dashboard with Leaflet.js for live geospatial visualization, enhancing situational awareness for emergency response teams.

CERTIFICATIONS

- Building Interactive Dashboards with Microsoft Power BI | **Infosys** *(May '24)*
- Python Bootcamp | **Udemy** *(Sep '23)*
- Python for Machine Learning and Data Science | **Udemy** *(Sep '23)*
- PCAP: Programming Essentials in Python | **Cisco** *(Jun '23)*
- Matlab Certified | **MathWorks** *(Sep '23)*
- Eduskill AI-ML Virtual Internship | **AICTE** *(Jul '24 - Sep '24)*
- CCNA - Introduction to Networks | **Cisco** *(Oct '24)*
- Cloud Computing | **NPTEL, IIT Kharagpur** *(Jul '24 - Oct '24)*

INTERESTS

- Travelling
- Food
- Hiking
- Drawing
- Music