YOGESH JADHAV

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Education

MIT Academy of Engineering Jan. 2021 – Jun 2024

*Bachelor of Technology in Electronics and Telecommunication **CGPA:8.45/10*** *Pune, Maharashtra*

Experience

Aeron Systems Pvt. Ltd. Jun 2023 – Dec 2023

Hardware Design Engineer Intern *Pune, Maharashtra*

- Developed and implemented a high-performance hardware component that significantly enhanced system efficiency by 25% while achieving a 15% reduction in power consumption.
- Led and contributed to a project for the Indian Air Force, developing innovative hardware solutions for missile guidance systems. Successfully calibrated military-grade hardware products to meet stringent industry standards.
- Developed comprehensive hardware documentation and reports, including detailed schematics and PCB designs.

Celebal Technologies Pvt. Ltd. Apr 2023 – Jun 2023

Data Engineer Intern *Remote*

- Contributed to data pipeline development, optimizing ETL processes for efficient data flow and insights.
- Collaborated with senior engineers to improve data flow efficiency and performance.

Inthink Technologies Pvt. Ltd. Aug 2022 – Dec 2022

Machine Learning Intern *Pune, Maharashtra*

- Developed machine learning models for object recognition and tracking, achieving a 25% performance improvement.
- Conducted extensive research to improve facial recognition algorithms, resulting in a 50% reduction in false negatives.

Projects

Resume Analyzer using NLP and Streamlit | *Python, SQL, Machine Learning, NLP* **March 2024**

- Created a Resume Analyzer utilizing NLP and Streamlit to deliver automatic Resume Scores and career guidance.
- Provided personalized course and skill suggestions based on resume analysis.

Neural Style conversion with streamlit | *Python, Pytorch, CNN* **April 2024**

- Built a style transfer app using PyTorch and Streamlit to transform images with pre-trained models.
- Achieved 95% accuracy with VGG16 models optimized by Adam for high-quality stylization.
- Provided 4 unique artistic styles for transformation (e.g., candy, mosaic) with real-time output display.
- Enabled smooth image processing and display using PIL for seamless user experience.

Real Time Human Detection & Counting in a Video | *Python, OpenCV, YOLOv5* **April 2022**

- Engineered a system for real-time people detection and counting using OpenCV with YOLOv5 and HOG features for accurate surveillance and crowd management.
- Delivered a robust solution for tracking humans in dynamic environments.

Technical Skills

Languages: Python, C, SQL, MATLAB
Developer Tools: PowerBI, Tableau, YOLO, OpenCV, Altium, Raspberry Pi, Arduino
Frameworks/Technologies: Pytorch, Machine Learning, Deep Learning, Computer Vision, NLP, Robotics

Publications

Title: Fall Detection Using HOG Feature Extraction and Adaptive Boosting Technique
Publication: IEEE   **Link:** https://ieeexplore.ieee.org/document/10291838/ **Oct 2023**

Title: Classroom Activity Detection using TinyML
Publication: ETMCIS   **Link: NA** **June 2024**

Key Achievements

Amazon ML Summer School 2023 **Sept 2023**

Program Completion

- Completed an intensive ML program, gaining expertise in supervised learning, deep neural networks, dimensionality reduction, unsupervised learning, and probabilistic graphical models.
- Attended workshops and training sessions led by top machine learning researchers

AIR 10 in Robocon 2022 **July 2022**

- Secured a top 10 ranking among all participants from India.