M VISHNU BHARAD-WAJ

Engineer

Contact

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8147450529

Karnataka, India

Website

Skills

Python | C | Machine Learning | Deep Learning | NumPy | Pandas | Scikit-learn | Problem Solving | OpenCV | MediaPipe

Education

J.S.S. ACADEMY OF TECHNICAL EDUCATION BANGALORE Aug 2022 - Present
ENGINEERING

JNANASWEEKAR PU COLLEGE Jun 2020 - Sep 2022
12TH/PUC

JYOTHI KENDRIYA VIDYALAYA May 2019 - Mar 2020
10TH

Projects

JSSATEB Nov 2024 - Dec 2024
Drowsiness Detection using Machine Learning
• Built a model to detect driver drowsiness using Eye Aspect Ratio (EAR).
• Utilized Python, OpenCV, MediaPipe, SciPy, Winsound.
• Tested on 1,000+ images, achieving ~99% accuracy in controlled conditions.
• Designed a low-latency alert system that triggers sound alarms within 50ms of drowsiness detection.

Python | OpenCV | MediaPipe | SciPy | Winsound

JSSATEB Sep 2024 - Oct 2024
Malware Detection in Files
• Developed a machine learning model to classify files as benign or malware.
• Trained on a dataset of 10,000+ files, achieving ~90% accuracy on test data.
• Implemented feature extraction techniques to enhance classification accuracy.
• Tools: Python, Pandas, LightGBM, Scikit-learn, Joblib.

Python | Pandas | LightGBM | Scikit-learn | Joblib

Personal Jun 2024 - Jul 2024
Sign Language Detector
• Created a real-time sign language recognition model.
• Recognizes and translates 26 English letters + 5 common words using OpenCV, MediaPipe, Scikit-learn.
• Achieved ~98% accuracy on a dataset of 5,000+ hand gesture images.
• Integrated a user-friendly GUI to display recognized gestures in real-time.

OpenCV | MediaPipe | Scikit-learn

Personal Jan 2021 - Feb 2021

Gesture-Controlled RC Car

• Built an RC car controlled via hand gestures using an accelerometer wristband.
• Integrated Arduino Nano, RF transmitters, and motors for seamless movement.
• Improved response time by 30% through optimized signal processing.
• Developed a custom firmware for improved signal accuracy and real-time control.

Arduino | RF Communication

Personal Jul 2019 - Aug 2019

Biped Robot

• Designed and programmed a two-legged bipedal robot with servo motors & Arduino Nano.
• Controlled via Bluetooth using a mobile app.
• Enhanced stability through real-time feedback adjustments and gyroscope-based balancing mechanisms.

Arduino | Bluetooth Modules

Certifications

LinkedIn Learning Sep 2024 - Oct 2024

Artificial Intelligence Foundations: Thinking Machines

LinkedIn Learning Aug 2024 - Sep 2024

Introduction to Artificial Intelligence

NPTEL Jan 2024 - May 2024

Computer Networks and Internet Protocol

CodeAlpha Mar 2024 - Apr 2024

Virtual App Development Intern

Java | Kotlin | Android Studio | REST APIs