# Eizad Hamdan

eizadhamdan1506@gmail.com | +91 63998 49634 | LinkedIn: eizad-hamdan-440039262 | GitHub: eizadhamdan

## EDUCATION

**Aligarh Muslim University**                                                                             **Aligarh, India**
*Bachelor of Technology in Computer Engineering*                                                   *2022-2026*
- o **CGPA:** 9.129
- o **Related Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Design and Analysis of Algorithms

**Saiyyid Hamid Sr. Sec. School, AMU**                                                               **Aligarh, India**
*Senior Secondary School Examination (Result : 86.4%)*                                              *2021*
**Our Lady of Fatima Sr. Sec. School**                                                               **Aligarh, India**
*Secondary School Examination (Result : 93.8%)*                                                     *2019*

## SKILLS

**Programming:**  C, C++, Java, Python, JavaScript, SQL, HTML, CSS, SASS, Django, Flask, React.js
**Tools:**  IntelliJ, PyCharm, Eclipse, Jupyter Notebook, Google Colab, Git, Docker
**Other Skills:**  Skilled in operating Raspberry Pi, Jetson Nano, and Arduino systems; adept at integrating Intel RealSense depth camera and LiDAR sensor for various projects.

## PROJECTS

**Kernel Metrics**
- Developed a machine learning model for wheat variety classification and geometric analysis, accurately measuring properties of kernels across three varieties. Employed Principal Component Analysis for feature extraction, enhancing the model's efficiency and accuracy.

**Lane Detection System**
- Developed a Lane Detection System for autonomous vehicles using Python and OpenCV. Implemented computer vision algorithms for real-time identification and tracking of lane markings, incorporating advanced image processing techniques for enhanced visibility and robust performance, contributing to the evolution of autonomous vehicle technology.

**Vehicle Recognition**
- Implemented a Python computer vision program using OpenCV and machine learning for precise vehicle recognition. Applied advanced image processing techniques to detect and classify vehicles, contributing to improved traffic management and surveillance systems.

**Depthsense**
- Utilizing Intel RealSense technology for precise object distance measurement, recognition, and mask generation. RealSense depth sensing ensures accurate distance calculations, while object detection algorithms identify objects within the camera's view. Integration with OpenCV enhances image processing capabilities for versatile applications.

**Handwritten Digits Classification**
- Utilized advanced neural network architectures to achieve state-of-the-art accuracy in handwritten digit recognition using MNIST dataset. Project involved rigorous data preprocessing, feature engineering, and hyperparameter tuning for optimal results. Demonstrated proficiency in machine learning implementation, delivering impactful solutions.

**Air Canvas**
- Developed a real-time air canvas application using Python and OpenCV. Leveraged computer vision techniques to detect and track a colored object, empowering users to draw directly on a virtual canvas displayed on-screen. Used many color detection algorithms, integrating intuitive user interactions and ensuring smooth drawing features.

## EXTRA CURRICULAR

- Member of Computer Team of MTS-Autonomous Underwater Vehicle ZHCET Club          *2023-Current*
  Developing software for Autonomous Underwater Vehicles (AUVs) and contributing to the club's website development.
- Member of AMU Machine Learning Club                                               *2022-Current*