Rohit Kulkarni

+91 8999683528 rohitkkulkarni3333@gmail.com Rohit-Kulkarni

Education

CSMSS, Chhatrapati Shahu College Of college of engineering **2021 – 2025**
Bachelor of technology (B.Tech.) in Artificial Intelligence and Data Science *Aurangabad, Maharashtra*
CGPA : 7.5/10.0

Skills

Languages , DataBases and Visualization Tools : Python, R, SQL, HTML, Power BI, Excel
Frameworks & Toolkits: Tensorflow, Keras,PyTorch.
Core Competencies: Deep Learning & Neural Networks, Natural Language Processing, Machine Learning.
Soft Skills : Decision-Making,Problem solving, Communication Skills, Self-Motivation, Creative Problem Solving.

Experience

Flynaut saas pvt ltd **April 2025 – Present**
Python Developer *India*
Tools & Technologies : Python, TensorFlow, OpenCV, MediaPipe, Google Translate API, Streamlit, AWS

- Smart Attendance System using Face Recognition
    - Developed a real-time attendance system using OpenCV and face recognition; achieved 98% identification accuracy.
- Successfully completed AWS training to support ongoing cloud-native development and ML model deployment efforts.

Personal Projects

- **Real-Time Object Detection and Pick-and-Place Robot:** Developed a smart automation system using YOLOv5, OpenCV, Raspberry Pi, and servo motors to detect and classify objects via camera and perform robotic pick-and-place operations. Enabled real-time sorting with 90%+ detection accuracy, enhancing industrial automation applications.
- **Cloud Burst Prediction System (SIH 2024):** Built a weather prediction model using **Random Forest**, **XGBoost**, and **Python** to forecast potential cloud burst events based on humidity, pressure, and wind data. Deployed on **AWS S3 & EC2**, with results visualized through dashboards. Helped in early disaster warning with **85%+ precision**.
- **Face Recognition System for Police Department (SIH2025):** Engineered a CNN-based face recognition system to identify missing or criminal persons from surveillance inputs. Compared input faces with a dataset of 44 individuals, returning full profiles on matches. Achieved 90%+ accuracy, integrated with Flask, and supported by real-time alerts for law enforcement.
- **Sign Language Recognition Web App:** Created a gesture-to-text translation system using **CNN + BiLSTM**, deployed via **Streamlit** and integrated with **Google Translate API** for multi-language support (40+). Trained on a dataset of **12,000+ gesture videos**, enabling accurate real-time communication for hearing-impaired users.

Coursework & Certification

- **NPTEL – Python for Data Science**
  Completed with certification from IIT faculty, covering NumPy, Pandas, data visualization, and analytics in Python.
- **NPTEL – Deep Learning**
  Focused on neural networks, CNNs, RNNs, backpropagation, and advanced model tuning.
- **IBM – Machine Learning** *(Digital Badge)*
  Covered supervised, unsupervised learning, model evaluation, and practical implementation using Scikit-learn.
- **IBM – Deep Learning** *(Digital Badge)*
  Trained in building neural networks with TensorFlow and Keras, including CNNs and sequence models.