Ishita Bhatt

ishitabhattoffice@gmail.com | +91 8368106016
https://github.com/ishitabhatt07 | www.linkedin.com/in/ishitabhatt07

Skills

Languages: C++, Python, Java, SQL,

Technologies & Tools: Git, GitHub, Streamlit, YOLOv7, OpenCV, TensorFlow, Keras, PyTorch, Flask

Education

Vellore Institute of Technology, Bhopal 2022 - 2026
BTech in Computer Science and Engineering with spec. in Health Informatics ***CGPA: 8.95/10***
Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Relevant Experience

IIT Kanpur Summer Training and Internship May 2023 - June 2023

- Python for Data Science and Data Visualization
- Assisted in the development and implementation of a Flask-based bug tracking system, improving issue tracking efficiency and resolution processes
- Created and maintained interactive dashboards that provided real- time insights into key performance indicators
- Applied Flask framework to deploy and manage backend services for data visualization

Project Work

Video-based Violence Identification System **Dec'24–May'25**

- Developed a real-time violence detection system using MobileNetV2 (CNN) and LSTM to analyze CCTV footage, achieving 94% accuracy in classifying violent/non-violent actions
- Integrated a Telegram API-based SOS alert system to dispatch real-time notifications with snapshots, timestamps, and location metadata
- Collaborated with a 5-member team on development and implementation
- **Tech Stack:** Python, TensorFlow, Keras, PyTorch, OpenCV, PIL, Flask, MySQL, Telegram API, Google Maps API, RTSP, Pandas, NumPy, Folium, HTML/CSS, JavaScript

AI Traffic Monitoring System **Jan'23–Dec'23**

- Built real-time traffic detection using YOLO (94% accuracy) and congestion prediction with LSTM (88% accuracy)
- Processed live camera feeds at 25+ FPS using optimized deep learning models
- Improved detection of small vehicles by 37% with advanced neural networks
- Created predictive alerts for road maintenance needs (82% accuracy)
- Deployed system on edge devices and cloud for scalable monitoring
- **Tech Stack:** Python, YOLO, TensorFlow, OpenCV, AWS, NVIDIA Jetson

Brain Tumor Detection using Convolutional Neural Networks **Sep'22–Dec'22**

- Developed a machine learning model to detect brain tumors in MRI images using CNNs
- Augmented dataset from 205 to 1500 images using data augmentation techniques
- Achieved 92% accuracy by fine-tuning hyperparameters and optimizing the CNN architecture
- Implemented using Python, TensorFlow, and Streamlit for a user-friendly interface

Extra-curriculars

- **IELTS (Band 8.5)** - English Language Proficiency
- **1st Position - Business Arena (Paper Trading & Auction)** - Competed against 200 teams at AdVITya'23
- **Content Research Analyst - FinTech Club** - Researched emerging trends in financial technology (2023-Present)
- **Basketball Team Member** - AdVITya'23 intercollegiate tournament