

Ishita Bhatt

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EDUCATION

Vellore Institute of Technology, Bhopal

2022 - 2026

BTech in Computer Science and Engineering with spec. in Health Informatics

CGPA: 8.96/10

SKILLS

Languages: C++, Python, SQL

Technologies & Tools: Git, GitHub, LangChain, Streamlit, Flask, TensorFlow, Keras, PyTorch, OpenCV, Ollama, ChromaDB, Pandas, NumPy, MySQL

PROJECT WORK

SimplyTax Bot: Agentic ITR Filing Help Bot

Oct'25–Nov'25

- Engineered an agentic chatbot using LangChain and Streamlit, leveraging Ollama (llama3) for intelligent ITR filing assistance.
- Implemented a dual-tool ReAct agent capable of autonomous tool selection between a local RAG pipeline and a live web search (DuckDuckGo).
- Developed the RAG pipeline to ingest PDFs, generate HuggingFace embeddings, and store in a ChromaDB vector store for retrieval.
- Tech Stack:** Python, Streamlit, LangChain, Ollama, ChromaDB, HuggingFaceEmbeddings

SafeFrame AI: A Video-based Violence Identification System

Dec'24–May'25

- Engineered a real-time violence detection system (94% accuracy) using MobileNetV2 (CNN) and LSTM for CCTV footage analysis.
- Integrated a Telegram API for SOS alerts, dispatching real-time notifications with snapshots, timestamps, and location metadata.
- Collaborated in a 5-member team on full-cycle development and implementation.
- Tech Stack:** Python, TensorFlow, Keras, PyTorch, OpenCV, Flask, MySQL, Telegram API, Pandas, NumPy

IIT Kanpur Summer Training Program - Flask Bug Tracking System

May'23–Jun'23

- Developed and implemented a Flask-based bug tracking system to enhance issue tracking efficiency and resolution processes.
- Created and maintained interactive dashboards, applying data visualization techniques to provide real-time KPI insights.
- Applied Flask framework to build, deploy, and manage backend services for the system.
- Certificate:** [View Certificate](#)

Intelligent Traffic Monitoring System

Jan'23–Dec'23

- Engineered a real-time traffic monitoring system using YOLO (94% detection accuracy) and LSTM (88% congestion prediction accuracy).
- Optimized deep learning models to process live camera feeds at 25+ FPS, improving small vehicle detection by 37%.
- Deployed the system on edge devices and cloud platforms for scalable monitoring and predictive maintenance alerts.
- Tech Stack:** Python, YOLO, TensorFlow, OpenCV

CERTIFICATIONS

- Oracle Cloud Infrastructure Certified Architect Associate
- Oracle Cloud Infrastructure Certified Foundations Associate

[Verify](#)

[Verify](#)

EXTRA-CURRICULARS

- IELTS (Band 8.5)** - English Language Proficiency
- Content Research Analyst - FinTech Club** - Researched emerging trends in financial technology (2023-Present)
- Basketball Team Member** - AdvITYa'23 intercollegiate tournament