

# Ishita Bhatt

---

Email: ishitabhatteroffice@gmail.com

Phone: +91 8368106016

GitHub: <https://github.com/ishitabhatter07>

## Technical Skills

- **Languages:** Python, Java, SQL, Kotlin, C++
- **Frameworks:** TensorFlow, Keras, PyTorch
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- **Tools & Technologies:** Git, GitHub, Streamlit, YOLOv7, OpenCV
- **Related Coursework:** Data Structures and Algorithms, AI/ML, Java Programming, Database Management Systems, App Development, Data Science, OOP in C++, Discrete Mathematics, Graph Theory, Linear Algebra, Computer Networks

## Education

Degree	Institution	Tenure	CGPA/Percentage
B.Tech (CSE - Health Informatics)	VIT Bhopal University	June 2022 – Ongoing	8.98/10
Class XII	Loreto Convent School	May 2022	90.0%
Class X	Loreto Convent School	May 2020	94.4%

## Academic Projects

### 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.
- **Role:** Technical Head, leading a team of 3 members to ensure project success.

### Traffic Detection and Prediction System

- Designed and implemented a **traffic management system** using for deep learning techniques real-time vehicle detection and traffic prediction.
- Utilized **YOLOv7** for accurate vehicle detection and counting in real-time video streams.
- Conducted a **comparative analysis of LSTM and GRU models** for traffic prediction.
- Enhanced **vehicle detection accuracy to 98%** and improved traffic flow prediction reliability
- **Technologies Used:** Python, TensorFlow, OpenCV
- Results available on Github

## Relevant Experience

### **IIT Kanpur Summer Training and Internship Program(16/05/2023- 15/07/2023):**

- 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.
- Hands-on experience in debugging, testing, and refining Python-based applications.

## Certifications

### **- Bits and Bytes of Computer Networking (Coursera, Google IT Support Professional Certificate)**

Learned networking fundamentals, including TCP/IP, DNS, and troubleshooting techniques.

### **- MATLAB Simulink Onramp (MathWorks)**

Gained proficiency in modeling and simulating dynamic systems using MATLAB.

### **- Deep Learning Specialization (Coursera, Andrew Ng - DeepLearning.AI)**

Covered key deep learning concepts such as Neural Networks, CNNs, RNNs, and Optimization techniques.

## Extra-Curriculars and Achievements

- Winner (1st Position) - **Business Arena (Paper Trading & Auction)**, AdvITYa'23 (Competed against 200 teams).

### **- Core Member & Content Research Analyst - FinTech Club (2023 – Ongoing)**

Conducted research on emerging trends in financial technology and presented findings to the club.

- **Basketball Team** Member - AdvITYa'23

## Additional Information

- **Avid Book Reader:** Read numerous novels by Fyodor Dostoevsky and Blake Crouch.

- **Hobbies:** Playing Basketball

- **Languages:** English, Hindi