

# Abhiral Jain

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## SUMMARY

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Aspiring AI and ML Enthusiast with a strong foundation in computer science also a passionate developer building interactive and responsive websites using HTML, CSS, JS, and React. Skilled in Python, Java, SQL, flask and various ML libraries. Excellent problem-solving, research, and collaboration abilities. Seeking a challenging role to develop cutting-edge AI solutions. I love learning new technologies and solving real world problem with code.

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, SQL, FLask, Firrebase,

**Web Development:** HTML ,CSS, React

**Libraries & Tools:** NumPy, Pandas, Matplotlib, Scikit-learn, YoloV8, Git

## PROJECTS

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### BrainQuest

*Frontend Development Project*

March 2025

*React.js, HTML, CSS*

- Dive into interactive mini-games covering subjects from math to cybersecurity and biology.
- Enjoy both single-player quests and multiplayer battles, featuring unique modules like "Knowledge Ladder" and "Attack Simulator."
- Powered by HTML, CSS, JavaScript, and React (Vite-based), and easily accessible on Vercel.
- LINK : <https://brain-quest-jet.vercel.app/>

### Real-Time Traffic Management System

*Artificial Intelligence Project*

July 2025 – Present

*Python, YOLOv8 model*

- Implemented real-time vehicle and pedestrian detection using YOLOv8 and OpenCV from live traffic camera/video feeds.
- Integrated traffic rule violation detection (red light jumping, lane/route violations) with adaptive signal timing logic.
- Built a Flask-based dashboard displaying live video, object counts, violation alerts, and stored analytics in SQLite

## EXPERIENCE

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### Research Team Lead

*EvolVIT – VIT Bhopal University*

Sept 2025 – Present

- Led and mentored a multidisciplinary research team, coordinating project planning, task allocation, and timelines to ensure consistent progress and on-time deliverables.
- Fostered a collaborative and innovation-driven team culture, improving research efficiency and knowledge sharing among members.
- Reviewed and validated research outputs, ensuring accuracy, originality, and clarity in reports, presentations, and submissions.

## EDUCATION

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### VIT Bhopal University

*BTech in Computer Science Engineering, Artificial Intelligence*

Bhopal, Madhya Pradesh

Sept 2024 – 2028

### New India Public School

*Higher Secondary*

Bhopal, Madhya Pradesh

2022 – 2024

### Jawaharlal Nehru School

*High School*

Bhopal, Madhya Pradesh

2012 – 2022

## **ACHIEVEMENTS**

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- Finalist at Summer of CodeFest Hackathon at VIT Bhopal University
- Finalist at SolVIT Hackathon at VIT Bhopal University