

SAURABH TIWARI

B.Tech in Information Technology

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SUMMARY

I am a Bachelor of Technology student specializing in Information Technology with a solid foundation in programming languages including C++, Python, and Java. I have hands-on experience in AI/ML projects using frameworks like PyTorch and libraries such as OpenCV. I take pride in my problem-solving skills and ability to work collaboratively. My engagement in extracurricular activities has honed my leadership and organizational skills

EDUCATION

Bachelor of Technology

Manipal Institute Of Technology

08/2023 - 01/1970 Manipal, India

Intermediate

Army Public School Mathura

04/2021 - 03/2022 Mathura Cantt

Matriculation

Army Public School Nagrota

04/2018 - 03/2020 Nagrota Cantt

PROJECTS

STeVe

04/2025 - Present

Video Analyzer using STSG

- Designed and implemented a system to generate Spatial-Temporal Scene Graphs (STSGs) from video frames using bounding boxes, object detection, and relation extraction
- Integrated a Large Language Model (LLM) to infer scene triplets and temporal object relationships across frames without relying on external STSG annotations (STSG-free inference)
- Developed custom STSG format compatible with MotionEPIC-style triplet and coreference representation (object, predicate, object)

Criminal Management System

02/2025 - 03/2025

Management system for criminal data

- Dashboards provide a live, centralized view of key criminal data, including active cases, court proceedings, police activity, and forensic reports
- These dashboards offer real-time access to all critical reports in the Admin or Police Dashboard, making it easy for authorized personnel to monitor updates and trends

STRENGTHS



Soft Skills

Adaptability
teamwork
effective problem-solving skills

KEY ACHIEVEMENTS



MIT Contingent

Secured 1st place in the Independence Day Parade Competition representing MIT

SKILLS

C++	C	Python	Java	NodeJS
React		MySQL	Git	Linux
Netlify		OpenCV	YOLOv8	

Hugging Face Transformers

Supervision