SAURABH TIWARI

B.Tech in Information Technology

spssgzp4@gmail.com • Saurabh LinkedIn • Portfolio

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

Manipal Institute Of Technology	Manipal, India
Bachelor of Technology	08/2023 - 01/1970
Army Public School Mathura	Mathura Cantt
Intermediate	04/2021 - 03/2022
Army Public School Nagrota	Nagrota Cantt
Matriculation	04/2018 - 03/2020

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