Saurabh Tiwari

spssgzp4@gmail.com | Varanasi , Uttar Pradesh GitHub | Linkedin | Portfolio



Introduction

A Bachelor of Technology student specializing in Information Technology with a strong foundation in C++, Python, and Java. Possesses hands-on experience in AI/ML projects using frameworks like PyTorch and libraries such as OpenCV. Demonstrates excellent problem-solving abilities and a collaborative mindset. Actively participates in college fests and events, contributing to team success and enhancing leadership and organizational skills.

Projects

CRIMINAL MANAGEMENT SYSTEM | Link

React.js, Node.js, MYSQL, Oauth

- A full-stack criminal management system designed to streamline crime data handling for Admins and Police Officers.
- Implements role-based login and dynamic dashboards.
- Features real-time crime filtering, dropdown selectors, search functionality, and interactive toggles for case status and prisoner status.

VIDEO OF THOUGHT | Link

Python, OpenCV, Mistral, spatio-temporal graph scene

- Developed a video understanding pipeline using OpenCV and Python that extracts frames and identifies subject-predicate-object triplets per scene.
- Built semantic representations of actions using structured triplets to enable frame-level understanding.
- Exported scene data to JSON format for easy integration with downstream ML models or reasoning
- Fine-tuned the Mistral language model to infer commonsense outcomes and predict likely future events based on scene context.

ACHIEVEMENTS

- Winner, Independence Day Event (MIT contingent) Part of the winning team representing MIT in a college-wide competition.
- Organizing Committee Member Contributed to the successful execution of college fests: Tech Tatva and Revels.
- Hackathon Participant Participated in various college and intercollege hackathons, gaining hands-on experience in team-based problem solving.

EDUCATION

Manipal Institute of Technology

Manipal, India Degree in Bachelor of Technology in Information Technology 2023-08-01 - 2027-07-01

CGPA: 7.58

Army Public School Mathura Mathura Cantt Degree in 12 non-medical 2021-04-01 - 2022-05-01

Percentage: 91.2%

Army Public School Nagrota Nagorta Cantt Degree in 10th 2017-04-01 - 2020-06-01

Percentage: 91.4%

CERTIFICATIONS

• Mathematics for Machine Learning: Multivariate Calculus

• Mathematics for Machine Learning: Linear Algebra

SKILLS

Programming Languages: C++, Java, Python

React JS, Node JS, PyTorch Libraries/Frameworks:

Tools / Platforms: Git, GitHub, Ubuntu Databases: MYSQL, MongoDB