

YESESWINI KRISHNAKUMAR

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in [yeseswini](#)

EDUCATION

SRM Institute of Science and Technology, Ramapuram

Bachelor of Technology (B.Tech) in Computer Science

August 2023 – May 2027

CGPA 9.40/10

Maharishi Vidya Mandir Senior Secondary School

Class XII CBSE

Grad. May 2023

Graduating Percentage 82%

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, HTML, CSS, JavaScript

Frameworks: Flask, Streamlit

Libraries & Tools: NumPy, Pandas, OpenCV, MediaPipe, PyAutoGUI, MySQL, MongoDB

PROJECTS

AirMouse AI – No-Touch Hand Gesture Control System

Python | OpenCV | MediaPipe | PyAutoGUI

- Developed a gesture-controlled virtual mouse enabling real-time, precise cursor actions using hand tracking.
- Integrated dynamic finger gestures for clicks, scrolling, and volume control with optimized webcam performance.

Smart Route Planner

Python | Flask | NetworkX | PyVis | HTML | CSS

- Designed an interactive web-based navigation tool using Dijkstra's, A*, and BFS algorithms to compute optimal routes across South Indian cities.
- Integrated multiple transport modes with real-time travel estimation and interactive graph visualization via PyVis.

Smart Traffic Control System

Streamlit Dashboard | Arduino & Raspberry Pi Integration

- Designed and implemented an IoT-based smart traffic control system that dynamically adjusts signal timings using real-time vehicle count, weather conditions, time of day, and emergency detection.
- Built a Streamlit dashboard with Plotly visualizations for live monitoring; integrated Arduino, Raspberry Pi, sensors, MQTT, and HTTPS for real-time data processing and secure system control.

EXPERIENCE

Volunteer Teacher | Teach For India

June 2025

Taught underprivileged students core subjects and provided academic support as part of a community initiative.

Sketch Club | Core Member – Media Domain | SRM Institute of Science and Technology

Sep 2024 – Present

Documented college events through photos/videos and created social media content.

Techpro Club | Core Member – Technical Domain | SRM Institute of Science and Technology

Sep 2023 – Aug 2024

Organized technical events and contributed to the execution of InnoRave.