

# Manik Sehrawat

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## EDUCATION

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**SRM University, Kattankulathur**

B.Tech in Computer Science & Engineering (AI & ML)

Kattankulathur, TN

2024–2028

**KCM, Palwal**

Senior Secondary Education (Science Stream)

Palwal, HR

2021–2023

## PROJECTS

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**Jarvis AI** — *Python*

2025

- Built a personal voice assistant capable of automation, system control, and real-time query handling.
- Integrated speech recognition, text-to-speech, and API-based information retrieval.

**Facial Expression Detector** — *Python, CNN, OpenCV*

2025

- Developed a CNN-based model to classify facial expressions from live webcam input.
- Implemented real-time emotion recognition using OpenCV and deep learning techniques.

**3D Particle System (Hand Gesture Controlled)** — *HTML, JavaScript, Computer Vision*  
2025

- Built an interactive 3D particle visualization system rendered in the browser.
- Implemented real-time particle manipulation using hand gesture tracking, inspired by Gemini-style interactions.
- Enabled dynamic particle movement, attraction, and dispersion based on hand motion.

**Multiplayer 2D/3D Game Engine** — *C++, Python, Networking*

2025

- Developed a custom game engine supporting both 2D and 3D environments.
- Used C++ for core engine components and Python for scripting, tooling, and gameplay logic.
- Implemented multiplayer networking, entity synchronization, and real-time state management.

- Created a gesture-controlled Snake game using real-time hand tracking.
- Replaced traditional keyboard input with computer-vision-based hand movement controls.

## EXPERIENCE

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### Software Engineer Intern, Yugayatra Retail Pvt. Ltd.

2025–Present

- Contributed to feature development and bug fixes in retail management systems.
- Improved application performance through code optimization.
- Collaborated with cross-functional teams to build scalable solutions.

### Deloitte Australia — Technology Job Simulation (Forage)

Dec 2025

- Completed hands-on development and coding tasks in a simulated professional environment.
- Designed a technical proposal for building a business dashboard.

### Deloitte Australia — Cybersecurity Job Simulation (Forage)

Dec 2025

- Analyzed web request logs to identify suspicious activity and potential cyber threats.
- Investigated a simulated security breach and assessed user behavior patterns.

### Deloitte Australia — Data Analytics Job Simulation (Forage)

Dec 2025

- Performed data analysis and forensic technology tasks on business datasets.
- Created dashboards and visualizations using Tableau to derive insights.

### Walmart — Advanced Software Engineering Job Simulation (Forage)

Dec 2025

- Worked on advanced software engineering problems involving data structures and architecture.
- Designed relational database schemas and performed data munging tasks.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, Java, C**Web Development:** HTML, CSS, JavaScript**Developer Tools:** Git, VS Code**AI/ML Tools:** OpenCV, TensorFlow (Beginner), Keras**Cybersecurity:** Computer Networking, Log Analysis, Web Security**Data Analytics:** Tableau, Power BI, Excel, Google Sheets

## CERTIFICATES

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- Google Cloud — *Prompt Design in Vertex AI (Skill Badge)* (2025)
- Google — *Foundations of Artificial Intelligence* (2024)
- Oracle — *OCI 2025 Certified AI Foundations Associate* (2025)
- IBM SkillsBuild — *Python Essentials for AI and ML* (2024)
- Microsoft Learn — *Introduction to Git and GitHub* (2024)
- Microsoft Learn — *Introduction to MS Excel* (2025)
- Udemy — *Modern Web Development Bootcamp* (2025)