

Manik Sehrawat

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EDUCATION

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

Jarvis AI — <i>Python</i>	2025
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- 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 — <i>Python, CNN, OpenCV</i>	2025
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- 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) — <i>HTML, JavaScript, Computer Vision</i>	2025
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- 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 — <i>C++, Python, Networking</i>	2025
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- 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.

Snake Game Using Hand Gestures — *Python, OpenCV*

2024

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

EXPERIENCE

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

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

- 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)