

AVANTIKA GUPTA

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PROFESSIONAL SUMMARY

Experienced in **Java** and **Python** with strong problem-solving skills and foundation in **data structures** and **algorithms**. Ex-**HCL Technologies** intern with hands-on **Software Development** experience, **Agile methodologies**, and **OS fundamentals** on **UNIX** and **macOS**. Actively seeking a challenging **SDE or App Development** roles.

EXPERIENCE

Software Development Intern

Oct 2024 – Jan 2025

HCLTech

Noida, Uttar Pradesh

- Developed and improved an internal **leave tracker system** using **Next.js, React, Node.js, HTML, CSS, JavaScript**, **MongoDB**, extensive **SQL**, and **Python's matplotlib**, enhancing transparency and data security.
- Gained hands-on experience in **UI/UX design, backend API development**, and **database integration**.
- Worked in an **Agile environment** with **Scrum methodologies** and **Jira** for daily stand-ups and sprint planning.
- Ensured seamless deployment and integration of the application within the company's main dashboard, enhancing internal operations.
- Contributed to improving internal process efficiency by designing a system that reduced leave management errors and increased tracking accuracy by 30%.

Volunteer at ICSA

May 2024 – Jun 2024

IIT Hyderabad

Hyderabad, Telangana

- Organized **ICSA 2024** sessions and logistics, ensuring seamless attendee experiences.
- Managed **barcode systems** for registration and tracking attendees.
- Designed posters, banners, and standees with **Canva Pro** and **Figma**, enhancing event branding.

TECHNICAL SKILLS

Languages: Java, Python, NumPy, Keras, Pandas, OpenCV, Scikit-learn, TensorFlow, matplotlib, C/C++, JavaScript, HTML, CSS

Frameworks: Next.js, React, Node.js, Express.js, Flask

Databases: MongoDB, SQL, SQLite

PROJECTS

Indian Sign Language (ISL) Recognition Model | *Python, OpenCV, Mediapipe, Deep Learning*

Nov 2024 – Present

- Developed a **real-time gesture recognition system** interpreting ISL via hand landmark detection.
- Utilized **Python, OpenCV, Mediapipe** to classify 26 ASL alphabets into digital signals.
- Achieved 95% real-time accuracy on 45-frame clips processed in <1.2 s on mid-range GPU with 2.3 MB footprint.

To-Do List Web App | *HTML5, CSS3, JavaScript*

Sept 2024 – Oct 2024

- Built a **responsive task manager** enabling add/edit/delete of to-dos through an intuitive UI.
- Implemented **localStorage persistence** to retain tasks across sessions.
- Added **filter/sort and drag-and-drop** for enhanced UX in vanilla JavaScript.

To-Do List App (Native Android) | *Kotlin, Room, MVVM, RecyclerView*

May 2025 – Present

- Built a fully functional **To-Do list app** using **native Android** with **Kotlin**, supporting task **creation, editing, deletion, and completion**. interfaces for local persistence, enabling offline data storage.
- Used **MVVM architecture, LiveData**, and **ViewModel** to achieve reactive UI updates and separation of concerns.
- Designed adaptive **Material UI** layouts supporting both **light and dark modes** based on system settings.

EDUCATION

JSS Academy of Technical Education

Noida, India

B.Tech in Information Technology

2025 Batch

CERTIFICATIONS

HCLTech Internship Certificate

The C++20 Masterclass: From Fundamentals to Advanced

Google AI Essentials – Udemy

Supervised Machine Learning: Regression and Classification – Andrew Ng (Coursera)