Ashish Kumar Nanda

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LinkedIn | Github | Leetcode

Education

Bachelor of Technology, Manipal University Jaipur   **August 2023 - July 2027**
Stream: Computer Science and Engineering (IoT) **CGPA - 9.13/10**
Relevant Courses: OOPS, Operating Systems, DSA, DBMS, Computer Networks, Artificial Intelligence and Machine Learning

Technical Skills

- **Programming Languages:** C, C++, Python, SQL, Java, JavaScript
- **Frontend:** HTML, Tailwind CSS, ReactJS
- **Backend:** NodeJS, ExpressJS
- **Tools :** Git, GitHub, VSCode
- **Authentication:** JWT, Firebase Authentication

Projects

SpeedZ - Typing Speed Test | Project
- Developed an **interactive Typing Speed Test Web Application** to measure typing speed (WPM) and accuracy.
- Designed a **real-time text comparison algorithm** to highlight correct, incorrect, and current characters while typing.
- Enhanced user experience through efficient **DOM manipulation**, **event handling** and **localStorage API**
- **Tech Stack:** HTML, Tailwind CSS, React.js, Node.js, MongoDB, JWT

Rock Paper Scissors Game | Project
- Developed an **interactive Rock, Paper, Scissors game** using **HTML, CSS,** and **JavaScript,** allowing users to play against the computer**.**
- Enhanced user experience through efficient **DOM manipulation, event handling,** and **conditional rendering.**
- **Tech Stack:** HTML, CSS, JS

Object Detection and Motion Tracking System
- Built a real-time object detection system using **YOLOv8** (Ultralytics).
- Tracked object motion and extracted coordinates across video frames using **OpenCV** and **NumPy**
- Integrated **geoPy** to map object locations with geospatial data
- **Tech Stack: YOLO**, **PyTorch**, **OpenCV**, **NumPy** and **geoPy**

Achivements

- Qualified for Round 2 in **MUJHackX Hackathon** among 1300+ participants at MUJ
- Solved **100+** DSA questions across coding platforms like **LeetCode** and **GeeksforGeeks**.
- Awarded **Dean's List of Excellence** for two semesters (II : **9.06 SGPA**, III : **9.40 SGPA**)
- Achieved **1st** and **2nd** positions in the Model Exhibition event at the **National Creativity Olympiad** for two consecutive years.

Certifications

- **CCNA: Introduction to Networks -** gained a solid understanding of networking fundamentals, including IP addressing, subnetting, network protocols, and device configuration | *Certificate*
- **Fundamentals of Network Communication -** gained a solid understanding of network protocols, data transmission, IP addressing, routing, and network security. | *Certificate*
- **Introduction to Generative AI : Google** | *Certificate*
- *Programming in Java - NPTEL*

Additional Experience

- **Technical Team Member, GDG -** Worked within a dedicated technical team to organize and manage technical events, workshops, and hackathons for a club.
- **Team Member, The Music Club** - Active team member of The Music Club, serving as a vocalist