Nidhi Kumar

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PROFILE SUMMARY

Computer Engineering graduate (2025) skilled in Python, Java, and C++ with a strong grasp of data structures, OOP, and operating systems. Experienced in developing, debugging, and testing software in Linux environments. Passionate about open source, teamwork, and building scalable AI-driven applications.

SKILLS

Programming Languages: Python,java

Web Technologies: React.js, Node.js, Express.js, HTML, CSS, REST APIs

Databases: MySQL, MongoDB

Frameworks & Tools: Flask, TensorFlow, PyTorch, Git, Kubernetes

Operating Systems: Linux, Windows

Software Development: Agile Methodologies, Debugging, Testing, Version Control (Git/GitHub)

Core CS Concepts: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems

AI/ML & Data Science: Deep Learning, Computer Vision, NLP, ML Algorithms (Regression, SVM, kNN, Random Forest, CNNs)

Networking & Security: Cisco Networking, VLANs, DHCP, Subnetting, VPN (IPsec), Firewalls, SSH, Port Security

Additional: Cloud Computing (Google Cloud, Oracle Cloud), Open-Source Contributions, Team Collaboration

PROJECT WORK

❖ **Weather Now- Real Time Weather App-** Link
- Built using **React (Vite + TypeScript)** and **Tailwind CSS** to fetch live weather data via **Open-Meteo Geocoding & Forecast APIs**.
- Implemented **fuzzy search**, efficient **state management (React Hooks)**, and deployed via **GitHub CI/CD on Vercel**.

❖ **Chitzy- Real Time Chat Application -** Link
- Developed a **MERN stack** app with **Socket.io** for instant messaging and **JWT-based authentication**.
- Optimized **backend APIs**, ensured secure communication, and tested performance under concurrent users.

❖ **From Pixels to Plants: Revolutionzing Aquatic Ecosystem Assessment with AI -** Link
- Applied **DeepLabV3+ (ResNet-50)** for image segmentation, achieving **96% accuracy** and **0.78 IoU**.
- Deployed a **Flask + MongoDB** pipeline for scalable, **web-based AI analysis** on cloud platforms.

❖ **Face Recognition Attendance System -** Link
- Created a **Python + OpenCV** application for real-time face detection and recognition.
- Focused on **debugging, testing**, and improving **model accuracy and reliability**.

INTERNSHIPS

Steag Energy India Private Limited - Odisha, India

Networking & Cisco Firewall Intern | June 2024 - July 2024
- Configured and managed **Cisco-based networks** with VLANs, DHCP, and firewall policies to improve security.
- Strengthened systems through **troubleshooting** and **optimisation**, ensuring enterprise-level performance.
- Gained hands-on exposure to **infrastructure design, problem-solving, and secure communication setups.**

ScaleFull Technologies - Pune, India

MERN Stack Development Intern | Dec 2023 - Jan 2024
- Developed and integrated **backend and frontend modules** for web applications using MERN stack.
- Implemented **APIs, authentication, and database operations** to enhance application functionality and security.
- Collaborated on **debugging, testing, and optimisation** for scalable, real-time applications.

EDUCATION

Sinhgad College of Engineering   Pune, India
Bachelor of Engineering   June 2025
Computer Science
CGPA: 8.35 / 10

Shikshan Maharshi Lt. S. Jiwtode Jr. College   Chandrapur, India
Higher Secondary School Education   2021
Percentage: 89.83 %

BJM Carmel Academy   Chandrapur, India
Central Board of Secondary Education   2019
Percentage: 81.80 %

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified Data Science Professional
- Google Cloud Computing Foundations - GDSC SCOE
- Prompt Design in Vertex AI - Google Cloud
- Generative AI - LinkedIn Learning
- Core Java - N Infinity Engineering Academy
- MERN Web Development - Wisdom Sprouts
- Basics of Digital Marketing - DIGISAS

ACHIEVEMENTS

Research Publications & Conference Presentations:

- "*AI and ML in Water Quality Analysis: A Review*" - Accepted for presentation at the 5th International Conference on Advanced Technologies for Societal Applications 2024; scheduled for publication in **Springer Nature** proceedings.
- *"From Pixels to Plants: Revolutionizing Aquatic Ecosystem Using AI"* – Presented at the International Conference on Recent Advances in Engineering and Sciences (2025), organized by Bharati Vidyapeeth's College of Engineering, Pune; to be published in a **Scopus-indexed journal**.

Competitions:

- Google Cloud Study Jam completion (GenAI Arcade Game + Cloud Computing Foundations Pathway).
- Earned 5★ in Python and 3★ in SQL on HackerRank.

Conferences:

- Women in AI Summit 2024 - Google for Developers

College/Technical Fest Contributions:

- Volunteer - Paper Presentation Committee, *Techtonic* Fest (Organised & coordinated event activities), Sinhgad College of Engineering
- Led campaigning and outreach activities to promote participation in *Techtonic Fest*.

HOBBIES

- Baking
- Traveling
- Painting
- Reading