

Nidhi Kumar

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PROFILE SUMMARY

Motivated Computer Engineering graduate with hands-on experience in AI, machine learning, and full-stack development. Skilled in Python, C++, and scalable system design with a strong foundation in data structures and algorithms. Experienced in developing intelligent models and web applications, with a keen interest in applying machine learning to solve real-world problems. Eager to contribute to high-impact engineering projects that blend AI and large-scale software systems.

EDUCATION

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

Higher Secondary Certificate (12th Std.) - SMSJ Jr. College, Chandrapur, India | 2021 | 89.83%

Secondary School Certificate (10th Std.) - BJM Carmel Academy, Chandrapur, India | 2019 | 81.80%

SKILLS

Programming & Databases: Python, Java, C++, SQL, JavaScript, MongoDB

Frameworks & Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Flask, Pandas, NumPy

AI/ML: Deep Learning, Computer Vision, NLP, Generative AI, LLMs, Data Visualization

Algorithms: Regression, Decision Trees, Random Forest, SVM, kNN, Naïve Bayes, k-Means, CNN, ResNet, YOLO

Cloud: Oracle Cloud, Google Cloud (Vertex AI, Compute, IAM, Storage)

Web Development: MERN Stack, REST APIs, Socket.io, JWT, OAuth, HTML, CSS

Networking: Cisco Networking, VLANs, DHCP, Subnetting, VPN, Firewalls, SSH

PROJECT WORK

❖ **Personal Portfolio** - [Link](#) | React.js | TypeScript | Vite | Tailwind CSS | Responsive Design | Git | Vercel

❖ **WeatherNow** - [Link](#) | React.js, Tailwind CSS, OpenWeatherMap API, LLM

Built a responsive weather app with live forecast data and natural-language queries using an LLM.

❖ **From Pixels to Plants: Revolutionizing Aquatic Ecosystem Assessment with AI** - [Link](#) | DeepLabV3+, Flask, MongoDB

Trained a ResNet-50-based segmentation model (96% accuracy, 0.78 IoU) for aquatic species detection and deployed it on a Flask web app.

❖ **Chitzy – Real-Time Chat App** - [Link](#) | MERN Stack, Socket.io

Developed a real-time chat app with JWT authentication and efficient socket-based communication.

❖ **Face Recognition Attendance System** - [Link](#) | Python, OpenCV

Created an automated attendance system using face recognition with improved accuracy via ML tuning.

INTERNSHIPS

❖ **ScaleFull Technologies | MERN Stack Development Intern | Pune, India | Dec 2023 – Jan 2024**

- Developed and integrated backend and frontend modules using MongoDB, Express.js, React.js, and Node.js.
- Implemented REST APIs, authentication, and database operations to enhance functionality and performance.
- Collaborated on debugging, testing, and optimizing real-time applications.

❖ **STEAG Energy Services | Networking & Cisco Firewall Intern | Odisha, India | Jun 2024 – Jul 2024**

- Configured and managed Cisco-based networks with VLANs, DHCP, and firewall policies to improve security.
- Designed secure, scalable network setups using SSH, port security, and IPsec VPNs.
- Gained practical experience in troubleshooting and infrastructure optimization

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
- AI Course - Yhills
- MERN Web Development - Wisdom Sprouts

ACHIEVEMENTS

Research Publications & Conference Presentations:

- “AI and ML in Water Quality Analysis: A Review” - Accepted at ATSA 2024, to appear in Springer Nature.
- “From Pixels to Plants: Revolutionizing Aquatic Ecosystem Using AI” - Presented at ICRAES 2025, BVP Pune
- Completed Google Cloud Study Jam (GenAI + Cloud Foundations).
- 5★ Python and 3★ SQL – HackerRank.Attended Women in AI Summit 2024 (Google for Developers).