

Dinesh Kumar Sahoo

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LinkedIn Profile

EDUCATION

• Chandigarh University, India

B.E. in Computer Science Engineering

2021 – 2025

CGPA: 7.67/10

• College of Basic Science and Humanities, Bhubaneswar

Council of Higher Secondary Education, Odisha (Class XII)

2018–2020

• Rtapalli Vidyapitha, Bhubaneswar

Board of Secondary Education, Odisha (Class X)

2013–2018

TECHNICAL SKILLS

Languages: C++, JavaScript (ES6+), Python, HTML5, CSS3

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

Databases: MongoDB, MySQL

Tools: Git, GitHub, Postman, VS Code

Concepts: REST APIs, Data Structures, OOP, DBMS, OS, Agile, ML (Basics)

EXPERIENCE

• Anuvadini AI

Software Developer

India

Jan 2026 – Present

- Working on AI-powered applications focusing on language processing and translation systems.
- Developing scalable backend services and APIs using Node.js and integrating ML-based modules.
- Improving system performance, reliability, and user experience across web platforms.
- Collaborating with cross-functional teams to deploy and maintain production-level applications.

• All India Council for Technical Education (AICTE)

Software Developer Intern

India

Aug 2025 – Jan 2026

- Developed and maintained web-based applications supporting national-level education initiatives.
- Worked on full-stack development including frontend interfaces and backend APIs.
- Enhanced system performance, security, and scalability through optimization techniques.
- Debugged and improved existing systems used by institutions across India.

• PG-Technology

Web Developer Intern

- Developed University Enrollment System with React.js & MySQL, integrating frontend and backend.
- Created responsive UI components, optimized database queries, and improved load time.
- Worked in Agile environment with sprints, stand-ups, and peer code reviews.
- Collaborated on API integration, debugging, and deploying modules to staging servers.

PROJECTS

• Virtual Keyboard

Gesture-based typing solution using Python & OpenCV

- Designed a virtual typing interface to improve accessibility for differently-abled users.
- Developed gesture recognition pipeline using Python, OpenCV, and Mediapipe for hand tracking.
- Mapped finger positions to virtual keys and optimized response time for real-time performance.
- Enabled hands-free typing, demonstrating real-world applicability of CV in assistive tech.

• Authentication System

Full-stack secure authentication system

- Built end-to-end authentication flow using React.js (frontend) and Node.js/Express.js (backend).
- Implemented JWT for session handling and bcrypt for secure password hashing.
- Created middleware for input validation and access control.
- Developed role-based dashboards (admin/user), enhancing security and usability.

• Depression Detection System

ML-based mental health prediction

- Preprocessed and cleaned datasets using pandas and NumPy, handling missing values.
- Engineered features and reduced dimensionality to optimize ML performance.
- Trained ML classifiers (SVM, Random Forest, Neural Networks) using scikit-learn & TensorFlow.
- Performed cross-validation, achieving improved accuracy and recall.

CERTIFICATIONS

- IBM Skills Network – Introduction to Cloud Computing
- IBM Skills Network – Web Development with HTML, CSS, JavaScript
- MongoDB University – Introduction to MongoDB
- Udemy – MERN Stack Development (React.js & Node.js)

INTERESTS

- Open-source projects & new technologies
- Adventure biking & traveling
- Cooking and experimenting