

ASHWANI SENAPATI

DOB: 18 Dec 2004 Rourkela, Sundergarh, Odisha

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Education

National Institute of Technology, Rourkela

Bachelor of Technology in Electronics and Instrumentation Engineering (CGPA - 8.85)

August 2023 – Present

Rourkela, Odisha

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming

- Database Management Systems
- Operating System

Work Experience

Pariksit INC

December 2024 – January 2025

Certificate

Frontend-Developer Intern

- Developed a highly responsive education website using Next.js, reducing page load time by 50% through efficient caching and backend integration during a 1-month internship at Pariksit Incorporation India Pvt. Ltd.
- Engineered interactive frontend components with HeroUI and TanStack, enhancing UI/UX and increasing user engagement by 30% across devices with cross-browser compatibility.
- Automated testing workflows, scaling executions from 20 to 100+ per week, leading to a 60% improvement in bug detection and smoother frontend integration through close collaboration with the technical team.

NirveonX

March 2025-June 2025

Certificate [🔗](#)

Full Stack Developer Intern

- Led a team of 10+ AI/ML and software engineers at Nirveonx, delivering production-grade ML models with 95–97% accuracy for real-world deployment.
- Designed and deployed a complete MLOps pipeline using Flask, Docker, and GCP, accelerating model deployment time by over 50%.
- Spearheaded full-stack development using Next.js, MongoDB, and Clerk, while directing a design team of 5+ members; delivered a seamless UI/UX that increased user satisfaction scores by 40%.

Projects

Hexadepth

November 2024

[GitHub](#) [🔗](#)

Next.js, Three.js, JWT, MongoDB, Flask, PyTorch, Docker

- Transformed 2D DICOM images into accurate 3D STL models using Gamma Correction and Marching-cubes algorithm, enhancing depth perception and realism by 40%.
- Integrated Three.js-rendered 3D outputs into a full-stack Next.js app with JWT-based authentication, Cloudinary/MongoDB data handling, and improved rendering speed by 30%.

GlobeTrotter

August 2025

[GitHub](#) [🔗](#)

Next.js, JWT, MongoDB, Flask, Docker

- Built an AI-powered travel planner (GlobeTrotter) for 100+ users, integrating Next.js, Flask, MongoDB, OpenAI LLMs, Google Places, and SERP API to deliver 90% accurate trip recommendations.
- Architected a full-stack itinerary system with JWT authentication, dashboards, and AI suggestions, reducing planning time by 60% and enabling multi-city itineraries with budget forecasts.

Achievements/Certifications

- Devised Hexadepth, a novel 3D medical visualization solution, during the ImagineAI Hackathon by ML4E; boosted spatial accuracy by 40% and enabled rapid STL model production, securing 1st place in the hackathon. *Certificate November 2024*
- Presented cutting-edge research on Human Activity Recognition at IEEE Indiscon 2025, enabling discussions among professionals and leading to collaborations with three different research institutions focused on enhancing real-time activity detection systems. *Certificate Paper June 2025*

Technical Skills

- **Languages:** Python, C++, Solidity, JavaScript
- **Developer Tools:** VS Code, Remix IDE
- **Technologies/Frameworks:** HTML/CSS, React.js, MongoDB, Tailwind, Next.js

Extracurricular Activities

HackOdisha 5.0

May 2025-September 2025

Organiser

NIT ROURKELA

- Orchestrated HackOdisha 5.0, WebWiz NITR's flagship hackathon, attracting 500+ participants and securing sponsorships, enhancing the reputation of WebWiz among Indian technology student circles.
- Managed logistics and communication for the sponsorship team, leading to the successful onboarding of 20+ community partners and ensuring a positive collaborative environment for the content generation project.