

ASHWANI SENAPATI

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🌐 [Ashwani Senapati](#)

🔗 [AshwaniNITR](#)

🔗 [Portfolio](#)

Education

National Institute of Technology, Rourkela

August 2023 – Present

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

Rourkela, Odisha

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Database Management Systems
- Operating System

Work Experience

Pariksit INC

December 2024 – January 2025

Frontend-Developer Intern

Certificate

- 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

Full Stack Developer Intern

Certificate [Link](#)

- 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

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

[GitHub](#) [Link](#)

- 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

Next.js, JWT, MongoDB, Flask, Docker

[GitHub](#) [Link](#)

- 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**.