

# ASHIS KUMAR MISHRA

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📅 DOB: 18/12/2003

📍 ADD: SCR-12, Sec-1, Niladrivihar, Odisha, India

📄 [Grade Card](#)

## EDUCATION

National Institute of Technology, Rourkela

Nov 2022 – Present

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

Rourkela, Odisha

## RELEVANT COURSEWORK

- Data Structures and Algorithms
- Object Oriented Programming
- Computer Networks
- Web Development
- System Design
- Machine and Deep Learning
- Database Management System
- Operating System

## WORK EXPERIENCE

National Institute Of Technology, Rourkela

May 2025 – July 2025

Machine Learning Intern

[GitHub](#) | [Website](#)

- Preprocessed **EEG** dataset handling missing values, signal artifacts, and class imbalance; engineered **48+** clinical features including spectral entropy and Hjorth parameters.
- Optimized ML pipeline achieving **84.02% accuracy** and **0.840 F1-score** with **XGBoost**, implementing comprehensive error handling and artifact detection protocols.
- Built interactive **Streamlit** web application for real-time EEG prediction with **rankings** and **medical visualization**

## PROJECTS

EduCRAFT — Course Navigator

Sept 2024 – Feb 2025

NextJS, React, Neon DB, Google's AI, Drizzle ORM, YouTube API, AceternityUI, Vapi

[GitHub](#) | [Website](#)

- A course navigator that auto-generates **YT lessons, notes, & links** via prompts—cutting manual search time by 40%
- Engineered a mock **interview tool** with real-time voice Q&A using Vapi, achieving 95% feedback accuracy.
- Launched a PDF assistant enabling **contextual Q&A** & note generation—boosting document comprehension by 60%
- Implemented a **credit-based billing** system with dynamic usage tracking, supporting feature activations via clerk.

MediSCAN AI — Intelligent Health Diagnosis Assistant

Nov 2024 – Mar 2025

Streamlit, GroqAI, BrightData MCP, Multimodal LLM, Gradio, ffmpeg, PortAudio, Pinecone

[GitHub](#) | [Website](#)

- Applied 4 DL models to detect **heart disease, diabetes, parkinson's, and breast cancer** — over 92% confidence.
- Enabled real-time **voice & image-based diagnosis**, letting users speak symptoms or upload scans for instant analysis
- Processed **10+ prescriptions** by mapping symptoms to medical context using **Semantic search & generative AI**.
- Scraped **50+ health updates** from Reddit & Forums with **brightData MCP** for trend detection and voice playback

## ACHIEVEMENTS

- **Team Ping Masters — Cisco Code with Hackathon Finalist (3<sup>rd</sup> out of 72 Teams)** **Aug 2025**  
Developed a **quantum-classical hybrid network topology** using NetworkX with link modeling. [Github](#) | [Website](#)  
Implemented **quantum physics constraints** including exponential **decoherence effects, no-cloning theorem, entanglement distribution protocols**, and quantum state fidelity modeling with distance-based loss simulation.  
Engineered **advanced Dijkstra routing** with reliability assessment and **quantum repeater** optimization .
- **GoFlow Atom Mail — ISM Dhanbad Hackathon (5<sup>th</sup> out of 80 Teams)** **Apr 2025**  
Led an intelligent **gmail-integrated assistant** to organize, fetch, and summarize inbox content . [Github](#) | [Website](#)  
Designed **auto-generated replies** with Gemini AI using **tone-aware, predictive response generation**. [Certificate](#)  
Integrated semantic search on 1000+ emails using **nomic embed text** (embeddings) and **pinecone** (vector DB).
- **GeeksforGeeks — Institute Lifetime Rank 8 with 800+ questions solved** **Dec 2024**  
Achieved **8<sup>th</sup> lifetime rank** among NIT Rourkela students with a Geek Coding Score of 2700+ . [RankList](#)

## CERTIFICATIONS

- **Certified in Machine Learning, Deep Learning and NLP** **Jan 2025**  
Skilled in ML models, deep learning, and NLP applications. [Certificate](#)
- **Certified Web Developer and Java Programmer** **May 2024**  
Proficient in building responsive, scalable web applications and advanced Java programming. [Certificate1](#) [Certificate2](#)

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Developer Tools:** VS Code, Jupyter Notebook, Git, Google Colab, IntelliJ IDEA
- **Libraries/Frameworks:** Node.js, Express.js, React.js, JavaScript, Next.js, Rest API, Shadcn UI, Firebase