

ASHIS KUMAR MISHRA

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EDUCATION

National Institute of Technology, Rourkela

Nov 2022 – Present

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

Rourkela, Odisha

Kendriya Vidyalaya No-3 , Bhubaneswar

May 2021

CBSE, Science (PCM) (Percentage - 95.6%)

Bhubaneswar, 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 – present

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](#)

- Built an **AI-powered course** navigator using **GeminiAI** and **YouTube API**, reducing manual search time by 40%.
- Integrated a smart **PDF Q&A** module enabling users to **upload documents and interact** with content using AI.
- Implemented **mock interview** simulations with **audio** , feedback and **AI-led** resume analysis.
- Boosted backend performance by 35% using **NeonDB** and **Drizzle ORM** for fast and scalable queries.

GoFlow Atom Mail: AI-Enhanced Email Service

Nov 2024 – Mar 2025

Next.js, React, Gmail API, Gemini API, Convex DB, ShadCN , Pinecone , OAuth

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

- Built an intelligent **Gmail-integrated assistant** to organize, fetch, and summarize inbox content.
- Designed a **Chatbot** interface to **prioritize and summarize** emails based on keyword relevance.
- Enabled **auto-generated replies** with Gemini AI using **tone-aware, predictive response generation**.
- Implemented **semantic email search** using Nomic Embed Text and **Pinecone vector DB**.

ACHIEVEMENTS

- **AI Medical Diagnose — ISM Dhanbad Hackathon (5th of 80 Teams)** **Apr 2025**
Built a **multi-disease prediction** DL model to detect diabetes, heart disease, and breast cancer. [Github](#) | [Website](#)
Suggested **personalized diagnoses** and improvements using real-world medical data. [Certificate](#)
AI Bot with voice and image input using GROQ AI, multimodal LLM, ffmpeg, PortAudio, gTTS, and Gradio.
- **Competitive Programming Achievements** **Dec 2024**
Secured highest global LCCS rank 427 in biweekly contest 143 , 2293 in Codeforces (Ed. Round DIV 3) , [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
- **Libraries/Frameworks:** Node.js, Express.js, React.js, JavaScript, Next.js, Rest API, Shadcn UI, Firebase

EXTRACURRICULAR ACTIVITIES

Conducted Coding Workshops in Underprivileged Communities

Feb 2024

- Led interactive coding workshops for children in underserved areas, empowering them with foundational programming skills and enhancing digital literacy.