

# ABHIJIT KAYAL

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## PROFESSIONAL SUMMARY

Proficient in front-end technologies like HTML, CSS, JavaScript, and back-end frameworks like Node.js, Java. Skilled in building RESTful APIs, working with databases such as MySQL, MongoDB. Passionate about developing user-friendly applications and optimizing web performance. Strong team player with excellent problem solving skills and a focus on clean, maintainable code.

## EDUCATION

**NSHM Knowledge Campus, Durgapur (MAKAUT)**  
Bachelors of Technology  
in Artificial Intelligence & Machine Learning [4<sup>th</sup> year]

Durgapur, West Bengal  
2022-2026  
**CGPA:7.71**

## PROJECTS

**AI Kautilya** | *HTML, JavaScript and CSS*

[Live Preview](#)

- Built a full-stack voice/text chatbot using NLP (NLU + intent detection), STT for seamless, conversational interaction.
- Integrated with external APIs to provide real-time info (e.g., weather, factual data).
- Enhanced attractive frontend and deployed the system serverless on Vercel for low-latency, always-on availability.
- Applied context tracking and dynamic logging for continuous model improvement and robust dialogue management.

**AptiGeeks 2.0** | *Next.js, Gemini API, Node.js, Tailwind CSS, Prisma*

[Live Preview](#)

- Built an AI-powered career guidance platform that interacts with users through a dynamic chat interface.
- Included Gemini 2.5-Flash model to provide personalized responses for career planning and resume critique.
- Expanded a resume parsing and evaluation module that matches user profiles with relevant job descriptions.
- Revised job role recommendation using skill gap analysis and vector-based similarity search.
- Ensured user authentication with Clerk . dev.
- Created a responsive UI using Tailwind CSS, optimized for both performance and accessibility.

**NetraVaani** | *Hardware, IoT, NLP, MongoDB, TypeScript, Express.js, JavaScript, Node.js and CSS*

[Github](#)

- Built a low-cost blink-controlled assistive device enabling non-verbal patients (ALS/paralysis) to communicate through eye-blink detection and text-to-speech output.
- Added **Morse-code input** and **Stephen-Hawking-style predictive sentence completion** to accelerate communication speed and reduce user effort.
- Integrated emergency workflows using AI voice agent to auto-call family, trigger SOS alerts, and book ambulances; supports multilingual and offline operation.
- Developed adaptive menus, full text-board navigation, and smart-home control (lights, fan, TV) via IoT protocols (MQTT, automation APIs like n8n/IFTTT).
- Engineered scalable hardware using dry-electrode headband/smart-glasses and optimized blink-pattern recognition for hospital, home, and rural deployment.

## EXPERIENCE

**Full-Stack Web Development Intern**

**Hackethics Technologies Pvt. Ltd. | Remote | June 2025 – Present**

- Contributing to the development and maintenance of the company's official website using React.js, Node.js, and Express.js, database using mongoDB
- Developing new web features and ensuring smooth frontend-backend integration.
- Implementing secure payment gateway functionality for client transactions , API integration.
- Collaborating with the design and backend teams to improve website UI/UX and performance.
- Managing code using Git/GitHub and deploying updates to the production server.

## SKILLS

- Languages:** C, Java, Python, JavaScript, SQL, HTML, CSS
- Frameworks/Libraries:** React Js, Tailwind CSS, Express Js
- Technologies:** Node Js, Rest API, MongoDB
- Developer Tools:** VS Code, Postman, Git, Github

## CERTIFICATIONS & ACHIEVEMENTS

- 4★ Java & C , Hacker Rank ([Profile](#)) | 150+ DSA problems solved across **LeetCode, HackerRank & GeeksforGeeks**
- Hackathon winner in FIEM college