

DIBYANAND MISHRA

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PROFESSIONAL SUMMARY

Full-stack developer with experience in backend systems and AI-powered applications. Skilled in building scalable APIs and integrating LLM-based solutions like Moondream for real-world use cases. Passionate about AI agents, intelligent systems, and production-ready applications.

EDUCATION

Government College of Engineering and Leather Technology Kolkata, India
Bachelor of Technology (B.Tech), Computer Science and Engineering – CGPA: 7.4/10.0 (Till 5th semester)
2023 – 2027

TECHNICAL SKILLS

Languages: JavaScript, Python, Java | **Frontend:** Next.js, Three.js, React, Tailwind, HTML, CSS

Backend: Node.js, Express, FastAPI, REST APIs | **Databases:** MongoDB

AI/ML: Moondream, LLM APIs, Prompt Engineering | **Auth:** JWT, OAuth, Bcrypt

Tools: Git, GitHub, Vercel, Render, Cloudinary, NPM, Multer

PROJECTS

Semantic_Lens – AI Visual Understanding Assistant

[🐙 GitHub](#)

- Built an AI image understanding pipeline using Moondream API for captioning, visual reasoning, and semantic image analysis
- Designed backend endpoints for image upload, model inference, and structured response delivery
- Added caching to reduce repeated computation and improve latency
- Focused on deployment-friendly design by using API-based inference instead of running the model locally
- Created a foundation for AI features such as smart tagging, accessibility, and visual search

STREAM_MIX – Video Streaming Platform

[🐙 GitHub](#)

- Built scalable REST APIs for authentication, video upload, playlists, and user management
- Implemented JWT authentication with refresh tokens and secure password hashing
- Handled efficient media uploads using Multer and Cloudinary
- Designed normalized MongoDB schema and backend architecture for scalability

Braille Bridge – Assistive Platform for Visually Impaired

[🐙 GitHub](#)

- Built backend services that convert text and voice input into Braille-readable output
- Integrated Google Text-to-Speech API for accessible audio interaction
- Developed multi-format input processing with custom parsing logic
- Secured the platform using JWT authentication and Cloudinary-based storage

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Software Engineering
- Operating Systems
- Database Management Systems

ACHIEVEMENTS & LEADERSHIP

- 1st Runner-up, Google TechSprint Hackathon** – Built an accessibility-focused solution demonstrating strong teamwork and problem-solving skills.
- Winner, Robo Car Race (Engineers2k24)** – Secured 1st position with fastest lap time.