

# Snehashis Roy

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## Education

Kaziranga University, Jorhat   B.Tech in Computer Science & Engineering   CGPA: 7.53/10.	2022-Present
Kendriya Vidyalaya, Silchar   CBSE XII   63.8%	2022
Kendriya Vidyalaya, Karimganj   CBSE X   68.3%	2020

## Experience

### Web Developer Intern – Gratia Technology Pvt. Ltd, Guwahati (Nov 2024 – Jan 2025)

- Contributed to the full development lifecycle of 2 web applications, reducing bugs by 10% pre-launch through rigorous debugging and testing.
- Optimized database performance by writing efficient queries for data retrieval tasks, improving response time for specific application features.

### AI Research Intern – National Institute of Technology (NIT), Agartala (Jun 2025 – Jul 2025)

- Worked on "Face Track+": An AI-enabled facial recognition and access control system."
- Engineered key modules for a facial recognition system, achieving an accuracy rate of 96% in test environments by leveraging AI & HCL lab resources.
- Collaborated within a team of 9 interns to successfully meet all project milestones, contributing to the on-time completion of the system's proof-of-concept.

## Projects

### The Airbnb Insider: NYC Geospatial Analysis

- Developed a geospatial analysis project on NYC Airbnb listings, leveraging Python (Pandas, Seaborn) and Folium/Leaflet.js to process and visualize over 1,000 market trends.
- Applied Location Intelligence techniques to categorize listings, successfully identifying "Hidden Gems" (high-value/low-cost) and unprofitable "Tourist Traps" across Manhattan.
- Generated key data-driven insights, including the discovery of over 150 "Hidden Gems" and locating the highest concentration of expensive listings in Tribeca/SoHo.

### Spoiler Shield : An Chrome Extension to block movie and TV spoilers locally.

- Developed Spoiler Shield, a Manifest V3 Chrome Extension providing Zero-Knowledge spoiler blocking for media.
- Implemented Nuclear Mode for advanced paragraph blurring and Universal Protection for auto-blocking character names via API lookups (e.g., TVMaze).
- Designed a modern, customizable Aero UI to ensure a premium, non-intrusive content filtering user experience.

### TheInput : Text-to-Prompt Website

- Built TheInput, an AI prompt engineering workspace powered by Google Gemini API to automatically generate optimized, high-performance prompts using the STOK framework.
- Engineered prompt refinement tools, including a Notion-style editor, Multimodal Support (visual analysis), and an AI Grading system (0-100 score) to maximize LLM effectiveness.
- Full-stack development using React/TypeScript and Tailwind CSS, integrating Firebase for secure authentication and cross-device Cloud Sync of the prompt library.

## Certification

- Qualified for IBM National Hackathon 2025 – IBM Expert Labs, Bengaluru
- Participant of the Smart India Internal Hackathon 2023 – Kaziranga University, Assam
- Microsoft Excel – Udemy, Kulture Hire.
- Microsoft Power BI desktop for Business Intelligence and DAX- Udemy, Kulture Hire
- AWS Academy Machine Learning Foundations – AWS Academy
- Deloitte Australia - Data Analytics job Simulation - Forge

## Skills

- Programming Languages : Python, JavaScript
- Web Frameworks & Libraries : MERN Stack (MongoDB, Express, React, Node.js), Next.js, Flask
- Data Science & Analysis : Pandas, NumPy, Matplotlib, Seaborn, PowerBI, Microsoft Excel
- Databases & Cloud Services : PostgreSQL, MongoDB, Firebase, Supabase
- Tools & Version Control : Git, GitHub
- Design & Prototyping : Figma, Canva, Adobe Illustrator
- Areas of Interest: Generative AI, Frontend Engineering, UI/UX Designing, Data Analysing