

# SNEHASHIS MANDAL

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Computer Science Engineering student with expertise in **Data Structures & Algorithms, Machine Learning, and Web Development**. Passionate about **AI-driven solutions** and **problem-solving**, seeking opportunities to apply skills in dynamic environments

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## ACADEMIC QUALIFICATION

- **INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA**  
B.Tech in Computer Science & Engineering (AIML) | 2022-2026 | CGPA: 8.74
  - **GitaRam Academy, Berhampore**  
ISC(Class XII) | 2020 | Percentage: 81.6%
  - **GitaRam Academy, Berhampore**  
ICSE (Class X) | 2018 | Percentage: 88.8%.
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## PROJECTS

- **AI-Powered Image Filter Web Application:** [2025]  
Developed and deployed a full-stack web application that applies AI-based image filters to user-uploaded images. Integrated a Python backend using OpenCV for image processing with a React frontend for real-time interaction. Deployed the application on an AWS EC2 instance.  
**Technologies:** React.js, AWS EC2, Python, Flask.
  - **HealthChatBot:** [2024]  
AI-powered Chatbot for preliminary medical consultations.  
**Technologies:** Streamlit, API.
  - **Co2 Emission predication comparative study:** [2023-2024]  
Analyzed different regression ML models for CO2 emission prediction and optimized performance.  
**Technologies:** Python, Scikit-learn, Pandas
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## CERTIFICATIONS

- Machine Learning Introduction - IBM
  - Generative AI Essentials – Microsoft
  - AI for Everyone - DeepLearning.AI
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## EXPERIENCE

- **Smart India Hackathon (2024)**  
Qualified for the internal college round by developing an AI-driven solution (chatbot) for the website of Department of Justice using **Diagflow**.
  - **Healthcare Informatics Hackathon**  
Developed a Chatbot using **Streamlit** and **OpenAI API**, helping patients with inquiries and initial symptom assessments.
  - **Aerodynamics Exhibition by IEM (2023)**  
Organised the Exhibition and gained knowledge about Drones and their implementations to solve real world problems.
  - **Singapore Study Program on IoT & Data Analytics (2023)**  
Attended these programs and gained insights on NLP, IoT, Data Analytics and Cyber Security and how these fields are evolving to solve real world problems.
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## SKILLS

- **Programming Languages:** Java, Python(Beginner)
  - **Frameworks & Libraries:** Scikit-learn
  - **Technical Skills:** Data Structures & Algorithms (DSA), Machine Learning ,DBMS,Oops
  - **Tools & Platforms:** Git
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## EXTRA CURRICULAR ACTIVITIES

**Football:** Played at School-level and College-Level.