

Soumyadip Roy

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SUMMARY

Results-oriented artificial intelligence and machine learning enthusiast with leadership experience in managing projects and leading cross-functional teams. Skilled in effective speaking, leadership qualities, setting goals, and ensuring team members are motivated and aligned with project objectives.

EDUCATION

Bachelor of Technology in Computer Science Engineering <i>Heritage Institute of Technology (MAKAUT)</i> <i>YGPA (1st Year): 9.2</i>	2020 - 2024 Kolkata, WB
ACCP Pro Java Specialization Course <i>Aptech Institute</i>	2023-Present Kolkata, WB
Senior Secondary Examination <i>DPS (Joka) South Kolkata (CBSE)</i> 92.4%	2022-2023
Secondary Examination <i>DPS (Joka) South Kolkata (CBSE)</i> 96.4%	2020-2021

EXPERIENCE

Synexoo (Full Stack Developer) <ul style="list-style-type: none">Developed a Test Management System using MERN Stack and Nextjs with all functionalities.Gained insightful knowledge about the role of a full stack developer and building APIs for a suitable product output.	Nov 2024 – Jan 2025
Outlier (Freelance LLM Trainer) <ul style="list-style-type: none">Trained LLMs on a specified metrics and suggested the points for a weak LLM to make it better.Performed Data Science tasks and gained insightful experience on the same field by generating quality report analysis.	Oct 2024 – Present
GDSC-HITK <ul style="list-style-type: none">Team member of the Google Developer Student's Club of HITK and worked on Google Cloud.Worked on the Google Cloud Study Jam 2024.	Sep 2023 – Present
LCOSB-HITK <ul style="list-style-type: none">Core team member of the LCOSB team.Worked on a task of SW designing and rudimentary coding.	Sep 2023 – Dec 2024

PROJECTS

Test Scheduling and Management System (Software) <i>INNOVATHON'25</i> • https://github.com/SoumyadipRoy16/EDVITA	Dec 23, 2024 – Dec 24, 2024
<ul style="list-style-type: none">Designed a software named <i>EDVITA</i> to streamline education processes and making the system completely paperless.Integrated online compiler and real-time test management system that has all security enabled to ensure a proper test background along with face detection and other security measures to ensure no use of external measures are used.Worked as a full-stack developer of the team and developed all the frontend and backend routes and the deployment part.	
Blockchain Based Tokenized Crowdfunding Platform (Software) <i>HackNPitch (JU)</i> • https://github.com/SoumyadipRoy16/CreateNCode-ESummit-2024	Nov 16, 2024 – Nov 17, 2024
<ul style="list-style-type: none">Designed a tokenized crowdfunding platform to help the startups and other businesses to depend upon the tokens that are prepared in the software itself instead of other property materials.This platform uses blockchain as a part to deploy the specific contract and transfer app tokens for security purposes.Led the team and performed the critical operations including blockchain for the software.	

Disaster Management Prediction System (Software)

HackSynthesis (DriveBlaze) • https://github.com/CodenWizFreak/HackSynthesis_Omicode Sep 28, 2024 – Sep 29, 2024

- Designed a **disaster preparedness** platform (*Pragati Aid*) by predicting natural calamities using **Machine Learning**, time-series models like **ARIMA**
- Developed the model with historical data of past one month to a year.
- Developed blockchain-based relief fund collection gateway powered by smart contracts on **Ethereum**.

Museum Ticket Booking Chatbot (Software)

Smart India Hackathon '24 • <https://github.com/anki2003ta/Museum> Sep 8, 2024 – Sep 9, 2024

- Designed an online museum ticket booking system (*MuseMate*) with integration of a chatbot to efficiently handle ticket booking.
- Integrated payment gateway of Stripe and Google Pay for efficient payment within the platform.
- Multilingual platform for highlighting the diverse language of the country and making all kinds of user comfortable using the app. Also included AR for the inner looks of some featured gallery of the museum for user amazement.

Patient Management System (Software)

Status Code 1'24 • <https://github.com/Anidipta/Status-Code-1> Aug 24, 2024 – Aug 25, 2024

- Built our platform, *MediTrack* which includes patient and doctor dashboard to track and schedule appointments effectively.
- Integrated dynamic chat system using socket Io to chat with doctors for emergencies or other purposes.
- Included WhatsApp alerts and notification for smooth message transactions and also include vitals checker and other features for patients to effectively check their health.

Mental Health Management System (Software)

Buildspace s5 • <https://github.com/SoumyadipRoy16/mindmate> May 2024 – Jul 2024

- Designed an ai chatbot platform (*Mindmate*) for generating personalized response for mental health related issues.
- Developed the model with self-generated data and used a pretrained *BERT* model for better performance of the model.
- Built the UI/UX and also tackled few backend portions to effectively check the project and also lead the team with proper leadership and communicating effectively with teammates.

Class Routine Generator (Software)

Smart Bengal Hackathon '24 • <https://github.com/SoumyadipRoy16/Smart-Slate-SBH> Mar 2024 – Apr 2024

- Designed a platform for generating automatic class routines (*Smart Slate*), that aims to generate class routine like those are generated by various institutions by taking certain inputs from the user.
- Designed the UI/UX and the backend part to tackle proper generation of results.
- Lead the team and performed proper brainstorming resulting in a smooth platform for generating pdf formatted routines.

Smart Security System (Software)

CODE-A-BOT • <https://github.com/SoumyadipRoy16/Code-A-Bot> Feb 2024 – Mar 2024

- Designed a simulation of Smart Security System, that aims to detect movements in a stipulated region and sends notification to the user for the same.
- Designed the app for the simulation of the hardware.
- Guided my team with proper explanation and gathered ideas from all the members of the team equally.

Data Visualizer

SIF-Space Hackathon, IISF 2023, ISRO • <https://github.com/SoumyadipRoy16/LULC-Data-Visualizer> December 2023 – January 2024

- Led development of LULC data visualizer, a software to show graphically the change in LULC over various years and viewing the satellite image of all the states.
- Exploration of data from RBI GDP values from all the states to match with the share contributed by each parameter of LULC class.
- Contributed for the presentation and completely on the backend.

Smart Parking Automation

Smart India Hackathon '23 Sep 2023 – Oct 2023

- Led a diverse team in developing a comprehensive app application aimed at developing a smart parking system of a particular area.
- Coordinated backend and trained model with 96-97% accuracy.
- Spearheaded the creation of server infrastructure and database integration for tracking records of users, optimizing performance and reliability and integrated an idea of payment gateway for effortless payment transfer.

SKILLS

Programming Languages: Python, C, C++, Java, JavaScript Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn.

Backend: Django, Flask, Rest APIs

Database: MongoDB, MySQL, Supabase

Frontend: HTML, HTML5, CSS, JS

Leadership Skills: Team Management, Strategic Planning, Effective Communication, Problem-Solving, Accountability and Responsibility

Languages: Fluent Proficiency in reading and writing English, Bengali and German

ACHIEVEMENTS & CERTIFICATES [↗](#)

- 4th Place at INNOVATHON'24 held at NSHM, Kolkata.
- 2nd Place at ML Bootcamp Challenge 101 held on Kaggle by GDG-HITK.
- Top 20 Finalists at TMSL Educ-A-Thon'24 Hackathon
- Finalists at JU ESummit-2024 HackNPitch Hackathon.
- 2nd Runner up at HackSynthesis (DriveBlaze) organized by UEM, Kolkata.
- Got selected as top 50 finalists at Status Code 1 held at IISER Kolkata organized by IIIT Kalyani.
- 1st Place in ISTE Case Study Competition.
- Got selected as one of the top 50 finalists for the SIF Space Hackathon organized by ISRO.
- 3rd Runner up at Code-A-Bot 2024 out of 200 teams and 15 finalists.
- 3rd Runner up at Campus Connect out of 250 teams.