

# SAPTARSHI BHATTACHARYA

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## EDUCATION

**B.Tech., Computer Science and Engineering**, Kalyani Government Engineering College

June, 2024

Relevant Coursework: DBMS, Operating Systems, OOPS, Computer Networks, Pattern Recognition, etc.

GPA: 9.32

## SKILLS AND TECHNOLOGIES

**Data Science and Analytics:** Jupyter Notebook, Pandas, NumPy, Matplotlib, Plotly, Tableau, MS Excel

**AI/ML:** Scikit-Learn, TF, PyTorch, OpenCV, CNN, RNN, LSTM, Recommendation Systems, Time Series Models, MCP

**Programming Languages:** Python, JavaScript, TypeScript, Java, Solidity, Bash

**Web:** FastAPI, Flask, MERN, REST APIs, JWT Auth, Supabase, Websockets

**DevOps and Cloud:** Docker, GitHub Actions, GitLab CI/CD, AWS S3, EC2, SageMaker, Boto3, Nginx/Apache, Solaris

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, Oracle, PL/SQL

## EXPERIENCE

**Management Trainee**

October, 2024 – Present

[RPSG Ventures](#)

Kolkata, India

- Developed and maintained CRM and billing pipelines across **5 cities, 3 states**, and **38 lakh+ consumers**.
- Worked on ML models for **load forecasting** and **consumer segmentation** using usage patterns and complaint behavior.
- Designed **Voicebot** workflows integrated with **IVR systems**, and geospatial **outage detection** using CESC's **DTR-to-consumer mapping**.
- Secured **GitLab CI/CD pipelines** by integrating with **ManageEngine** in collaboration with the security team.
- Built **Dockerized microservices**, including [Health Monitor](#) and [URL Redirector](#); explored **Kubernetes**.

**Data Science Intern**

July, 2022 - November, 2022

[Contelligenz](#)

Hyderabad, India

- Worked on **SageMaker** pipelines to pre-process and transform data, resulting in a **16x** improvement in efficiency.
- Analysed content database for **key metadata categories**, resulting in higher-quality **suggestions**.
- Built **high-accuracy ensemble models** for an **implicit recommender** system.

## PROJECTS

[Parkify \(Computer Vision\)](#) • [YouTube](#)

- Built an **AI-powered parking automation system** using **OpenCV** and a quantized **TensorFlow OCR model** for real-time number plate recognition, achieving a **15x speedup** in inference time.
- Developed the end-to-end **MERN stack application** with a seamless user flow for entry, allocation, and exit tracking.

[Portfolio Chat \(Python, LLM, Gradio\)](#) • [Hugging Face](#)

- Fine-tuned a **LLaMA 3.2-1B** model on personal résumé & project data to build an **LLM-powered chatbot** for Q&A.
- **Linux-terminal-style interface** with **Vite + React** for real-time interaction, using **Ollama**, **vLLM**, **gradio** and **HF**.

[HomeAI MCP \(MCP, Gmail API, MongoDB\)](#) • [EmailMCP](#) • [CalendarMCP](#)

- Built **Model Context Protocol servers** to handle [Gmail](#) and [Personal Calendar](#) via **async JSON-RPC 2.0**.
- Implemented **email drafting**, **templating**, **sending**, and **calendar assistant** with robust tools and resource management.

## ACHIEVEMENTS

- **Hackathons** – Finalist at **Smart India Hackathon 2022** and **2nd Place Winner** at **Hack4Bengal 2.0**, recognized for developing scalable civic-tech and infrastructure solutions.
- **GitHub Campus Expert** (Apr 2022 – Present) – Received GitHub **sponsorship** to host developer events across campuses.
- **Research Publication** – **C3IT 2024** – Co-authored *“Nirmayaak: Revolutionizing Legal Research”*, presenting an **AI-powered NLP system** to streamline legal document analysis and reduce judicial delays.