

Saheli Mahapatra

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EDUCATION

- Government College of Engineering and Ceramic Technology** Kolkata, India
Bachelor of Technology - Computer Science & Engineering; CGPA: 9.78 2020-2024

SKILLS SUMMARY

- Languages:** JavaScript, TypeScript, SQL, Java, C#, Python
- Frameworks/Libraries:** Node.js, Express.js, React.js, .NET core, Bootstrap, AngularJS, Jest, NestJS
- Tools/Technologies:** Docker, CI/CD, Redis, Kafka, PostgreSQL, MongoDB, MySQL, Git, Postman, GraphQL, Microservices,

EXPERIENCE

- SISL Infotech Pvt Ltd** Kolkata, India
Software Engineer Aug 2024 - Present
 - Backend Development:** Developed scalable RESTful APIs using Node.js and Express.js to support key functionalities of an HRMS portal.
 - Performance Optimization:** Enhanced query efficiency and reduced API response times by 35% through optimized backend services.
 - ETL Pipelines:** Designed and implemented ETL pipelines to process over 100,000 records per day, ensuring data integrity and accuracy.
 - Metrics:** Boosted user engagement by 35% through backend performance enhancements and seamless API integrations.
 - System Reliability:** Implemented error handling and rigorous testing to ensure a robust backend infrastructure.
 - Collaboration:** Worked closely with frontend teams to integrate APIs, ensuring seamless user experiences.
- ARC Document Solutions** Kolkata, India
Software Developer Intern Dec 2023 - May 2024
 - Database Design:** Designed optimized database schemas to improve data consistency and scalability.
 - API Development:** Built and tested APIs using Node.js for real-time data integration and analytics support.
 - ETL Processes:** Implemented ETL pipelines, streamlining data flow across systems for business intelligence.
- Basel Practitioners Private Limited** Remote
Technical Developer Intern Nov 2022 - Mar 2023
 - Mobile Backend:** Developed APIs with Node.js to enable real-time data submission and geolocation tracking for a farmer-focused mobile app.
 - Geolocation Integration:** Integrated advanced geolocation features, achieving 99% accuracy for location-based services.
- Microsoft** Remote
Microsoft Engage Mentee'22 May 2022 - June 2022
[Project Link](#)
 - Spearheaded **data analysis** to enable informed decisions in the automotive industry.
 - Conducted **data analysis**, developed web pages for data visualization, and created user interfaces using **Python Streamlit**. Built an application for the automotive industry to utilize data for informed decisions, employing Jupyter Notebook and **Python Streamlit**. Utilized **LabelEncoder** to convert categorical data to numerical and implemented **KNN algorithm** for a recommendation engine.

PROJECTS

- BlogSphere:** A full-stack blogging application using Node.js (backend) and React.js (frontend). Implemented CRUD APIs, authentication, and MongoDB integration. [Deployed Link](#)
- Fitness App:** Developed a fitness application with Node.js APIs for exercise data and YouTube integration using RapidAPI. [Deployed Link](#)
- DeepLearnRNA:** Pioneered method integrating **BERT**, **XLNet**, and **GPT-2** for **RNA** and **protein analysis**. Enhanced accuracy in **RNA family** and **protein structure prediction** using **deep learning**. Demonstrated significant accuracy and efficiency improvements in experiments. Highlighted **transformative impact** of amalgamated deep learning in advancing computational biology. [Project Link](#)