

# SAPTARSHI BHATTACHARYA

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## EDUCATION

**B.Tech., Computer Science and Engineering**, Kalyani Government Engineering College Expected June, 2024

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

GPA: 9.4

## SKILLS AND TECHNOLOGIES

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

**ML and DL:** TensorFlow, Scikit-Learn, NumPy, OpenCV, CNN, RNN, LSTM, Recommendation Systems

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

**Technologies:** MERN, GraphQL, Jest, Flask, Ethereum, Apache/Nginx, Blockchains, Selenium, Spring Boot, HTML, CSS

**Databases:** MongoDB, MySQL, PostgreSQL, Redis

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

## EXPERIENCE

**Software Intern**

May, 2023 - July, 2023

[RPSG Ventures](#)

Kolkata, India

- Worked with **Docker** for multi-version SQL and PHP apps and researched **Kubernetes** for micro-services.
- Developed and Orchestrated a **Health Monitoring application** ([GitHub](#)) using **MERN, Redis, Docker**.
- Created **URL Redirector** background service ([GitHub](#)) with **NodeJS, MongoDB, Apache**.

**Data Science Intern**

July, 2022 - November, 2022

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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.

**Backend Intern**

January, 2022 - April, 2022

[Coursenator](#)

Delhi, India

- Developed and maintained over **300 APIs** and curated **10000+ courses** from **100+ course providers**.
- **Optimized** search engine algorithms and data retrieval times by almost **6x** to create a seamless user experience.
- Implemented **machine learning** applications for **contextual text correction** and suggestions.

## PROJECTS

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

- Parkify is an innovative, **AI-powered parking solution** that revolutionizes Parking of Vehicles.
- Implemented the logic to **read Number Plate** text using **OpenCV** and Custom **TensorFlow OCR** model.
- Created **Full-Stack MERN Stack Application** and entire **user flow**, and reduced OCR times by **15x**

[Sudoku Solver. \(Python, OCR, Backtracking\)](#) • [YouTube](#)

- ML Application using **OpenCV** to **detect Sudoku puzzles** from images or from images taken from a webcam.
- Solved detected Sudoku Puzzle using a **Backtracking** Algorithm.
- Used **OpenCV** for **OCR** to create bounding boxes and contours and **Flask** for the Web App.

## ACHIEVEMENTS AND LEADERSHIP EXPERIENCE

- **Hack4Bengal 2.0 2nd Position** - Secured the runner-up position in East India's biggest hackathon.
- **Smart India Hackathon** Finalist (2022) – Finalist in SIH'22, an all India Hackathon and Business Pitch competition.
- **GitHub Campus Expert** (April, 2022 - Present) – Underwent training and received support and **sponsorship** to **organize events** and work with eminent **Community Leaders**.