SAPTARSHI BHATTACHARYA

+91 7439753613 ◇ Kolkata, India

bhattacharyasaptarshi2001@gmail.com ◇ LinkedIn ◇ Portfolio ◇ LeetCode(180+) ◇ GitHub

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: 9.5

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
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.

Backend Intern   January, 2022 - April, 2022
Coursenator   *Delhi, India*

- Developed and maintained over **300 APIs** and curated **10000+ courses** 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**.

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: Node.js, React.js, Flask, Ethereum, PyQt, Apache/Nginx, Blockchains, Selenium, HTML, CSS
Databases: MongoDB, MySQL, Redis
DevOps and Cloud: Docker, AWS SageMaker, AWS S3, AWS EC2, Boto3, GitHub Actions CI/CD