SAYAK BHATTACHARYA

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Education

Techno Main Saltlake | Kolkata, West Bengal
Information Technology | 08/2024
Second Year with 9.5 SGPA

Technologies / Frameworks

Python, Javascript, Java, C, C++, HTML, CSS, React JS, Next JS, Node JS, MongoDB, SQL, Supabase, REST API, GraphQL, Netlify, Vercel, Git, Github, Docker, Machine Learning, Tensorflow, Keras

Experience

Google Developer Student Club(GDSC) TMSL
ML Core Member | 08/2022 - Present

- Organizing and conducting regular workshops: As a core member of the **GDSC ML** team,I was responsible for organizing and conducting workshops on Machine Learning for interested students. This helped students to gain foundational knowledge in ML and understand its applications.
- Introducing basic ML concepts: In the workshops, we introduced basic ML concepts such as **supervised** and **unsupervised learning**, **decision trees**, **random forests**, and **neural networks**. Students acquired the core concepts of the underlying principles of ML.
- Hands-on practice: The workshops also provided students with hands-on practice on ML tools such as **Python** and **TensorFlow**. It facilitated the crowd to obtain practical experience in implementing ML algorithms and models

Smart India Hackathon
Team Leader | 01/2022 - 04/2022

- Lead a team of 5 members to generate the initial prototype for a **Web Platform** that makes a preliminary diagnosis of neurological and cognitive disorders like Dyslexia and Dysgraphia.
- Built a prototype that demonstrated the features and the UI flow of the proposed model.
- Proposed a **machine learning model** using **TensorFlow** and sequential **Keras architecture** that used a binary class classifier to distinguish between patients.
- Guided the team to model a **sustainable** and **user-friendly design** that won us the second spot in the internal hackathon round.

Projects

Biomedical Image Analysis - Malaria Cell Classification

- Developed a **Computer Vision** model using Keras Functional API in TensorFlow that classifies instances of parasitized and uninfected cells from the thin blood smear slide images of segmented cells.
- Tech Involved: **Python**, **NumPy**, **Matplotlib**, **TensorFlow**, **Keras Functional** API and Pre-processor

Full Stack Online Streaming Platform

- Built a **Full Stack** Online Streaming Platform with essential functionalities such as **authentication**, **authorization**, **database connectivity** with rich and **flawless UI** *[Motion]*
- Tech Involved: **Next JS**, **MongoDB**, **Node JS**, **Express JS**, **REST API**, **Netlify** (for front end deployment) and **Render** (for backend deployment)

Digital Portfolio

- Built a professional, user-interactive and state of the art Digital Portfolio that houses award-winning UI interactions and acclaimed digital art styles.
- Tech Involved: **React.js**, **Framer-Motion**, **GSAP**, **Intersection Observer API**, **Sanity** (as a headless CMS) and **Vercel** for deployment.

Achievements

- Secured 2nd position in Smart India Internal Hackathon.
- Secured 2nd rank in technical hackathon, presented by Hoichoi.tech
- Got certified from Technex, IIT BHU for Data Analytics and Machine Learning project.
- Secured 27+ verified Google Cloud Skill Badges, including Kubernetes, BigQuery, and ML APIs. [*Profile*]
- [Python](#) and [Javascript](#) certified from Hackerrank.
- Kaggle certified in Machine Learning. [*Profile*]
- [Github](#)