

Pratik Kumar Singh

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Education

Heritage Institute Of Technology

B.Tech in Computer Science Engineering(Data Science) CGPA-7.91

Kolkata, West Bengal

September, 2022 – Present

Experience

HeadStarterAI

Software Engineering Fellow

July 2024 – August 2024

Remote

- Worked as a **Front-end Developer** in **Track-B** (Final project that takes a startup's current backlog and builds it meeting business requirements.) with my Team. Also explored various **ML projects** under the guidance of **Headstarter mentors**.

Projects

JobQuest | ReactJs, Vite, Tailwind CSS, Shadcn/UI, Supabase, Clerk, Zod

January 2025

- Developed a **full-stack** job portal that streamlines the job search and hiring process, enabling seamless recruiter-candidate interactions. [Repository](#) | [Live](#)
- Implemented secure **authentication and user management** using **Clerk**, with **Zod** ensuring robust **form validation** and data integrity.
- Utilized **Supabase** for real-time database management, and application tracking.
- Designed a sleek, **responsive** UI with **Shadcn/UI**, improving user experience across devices.

IndustryXpert | Bootstrap, HTML, CSS, JS, Flask, Sqlite, Python, OpenCv

April 2024

- Industry Xpert is an AI based cutting-edge web application aimed at revolutionizing safety protocols within industrial environments. [Repository](#) | [Demo](#)
- Secure login and user management powered by Clerk, robust form validation and data integrity using Zod.
- Also I handled major **Backend Portions(50-55%)** like **Authentication, integration** and **database management** using SQLAlchemy and increased the project productivity by **2x**

MediConnect | TailwindCSS, Javascript, HTML, Flask, Sqlite, Python

June 2024

- Developed a **healthcare platform** for remote health management, early disease detection, and medication tracking. This application supports early detection and proper medication, crucial for condition like **Parkinson's disease** [Repository](#) | [Demo](#)
- I have developed the **entire Front-end** of this project ensuring that it is **Responsive** for both Mobile and Desktop.
- Assisted with **backend portions (20-25%)** using Flask to ensure the ML model is integrated and as functions properly.

Technical Skills

Languages:

C, C++, JavaScript, Python, R

Front-end:

HTML, CSS, Bootstrap, ReactJS, TailwindCSS, Shadcn/UI

Back-end and Database:

Flask, SQLite, Supabase, Node.js, Express.js, MongoDB

Tools and Others:

Git, GitHub, Postman API, Socket.IO

Libraries and Others:

Pandas, NumPy, Matplotlib, Tkinter, Zod, React Hooks

Achievements

- Winner of Rebase<01>** and **Best AI/ML Hack Track Winner** in a month-long online hackathon organized by **GDSC IIIT Kalyani**.
- Achieved **2nd runner-up** position at **HackSpire-2024**, a 12-hr **offline hackathon** organized by **FIEM-ACM Student Chapter** at Future Institute of Technology, with participants from across India.
- Top 25 Teams** in **HackForge – Forging the Future**, organized by Code Club JUSL, **Jadavpur University**.
- Outreach Lead** and **Core Team** member at Google Developer Groups On Campus HITK (**GDSC HITK**).