Pratham Raj

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LinkedIn Github Portfolio

Education

Heritage Institute of Technology, Kolkata   Aug 2022 – Present
B.Tech in Computer Science, CGPA: 8.7

Millia Convent English School, Purnea   Jun 2019 – Aug 2021
Senior Secondary (PCM), Percentage: 74.2

Experience

Pinnacle Labs   Jun 2025 – Jul 2025
Web Developer Intern

- Developed a responsive portfolio website with React, Express, and MongoDB.
- Built an admin dashboard with secure uploads, OTP verification, and Cloudinary hosting.
- Automated inquiry responses using Nodemailer, reducing communication delays.

Projects

Blog Platform *(React, TypeScript, Tailwind CSS, Hono, Prisma, Cloudflare Workers, PostgreSQL)*

- Implemented JWT authentication, blog CRUD, image uploads (Cloudinary), and a fully responsive UI.
- Built a serverless backend with Hono, Prisma Accelerate, and PostgreSQL, deployed on Cloudflare Workers for low-latency performance.
- Integrated Zod validation, Axios-based API communication, and deployed frontend on Vercel with SPA routing.
- Links: *Source code, Project Demo*

Diabetes Prediction Model *(Python, NumPy, Pandas)*

- Built logistic regression from scratch with gradient descent and sigmoid function for binary classification.
- Preprocessed the PIMA Diabetes dataset using feature scaling and stratified train-test split.
- Achieved 77.85% training and 75.97% test accuracy.
- Link: *Source code*

Achievements

- Solved 500+ problems on LeetCode and GeeksforGeeks.
- Achieved Global Rank 3209 and Institutional Rank 115 at Heritage Institute of Technology, Kolkata.
- 2nd Runner-up in Code2Career Coding Arena (Unstop) by Lets Code Community — *Certificate*

Skills

Programming: C++, JavaScript, TypeScript, Python, SQL
Web: HTML, CSS, React, Express, Hono, Prisma, Pandas, NumPy
Databases: MongoDB, PostgreSQL
Tools: Git, VS Code
Soft Skills: Problem-Solving, Teamwork, Communication

Certifications

Complete DSA Course (PW Skills)   *Certificate*   Nov 2023
- Completed a comprehensive course in Data Structures and Algorithms, focusing on problem-solving and algorithmic thinking.

Intro to Machine Learning (Kaggle)   *Certificate*   Jul 2025
- Built and evaluated ML models including linear/logistic regression, SVM, and validation techniques.