SAMARTH R. PAREKH

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LeetCode   CodeChef   HackerRank

Education

Dharmsinh Desai University, Nadiad   **2021 - 2025**
B.Tech in Information Technology   *8.81/10 CPI*

LBS Vidhyalaya, Vadodara   **2019 - 2021**
GUJCET   *96.12 pr*

Experience

WictroniX - Software Engineer Intern   **May - July 2024**
Worked on DqCare(Mobile Application, Flutter) and Akshay Mangal Sir's Website(Html, Css) projects.

Projects

EventPlex - Connect Students with Events and Clubs with Event Management   Code

- **Tech**:- Flutter(Bloc-Cubit), Node-Express.js, GraphQl, MongoDB, FireBase Storage
- **Idea**:- Eventplex is an mobile application where students can **discover** and participate in events based on their **interests**, and clubs can **host events** for students.
- **Implementation** State-Management with a popular package in flutter called Bloc(Cubit) and used GraphQl for querying and mutating selective events-clubs-user data. Used FireBase Storage for image-storage and node-express.js for making Api & backend.

SmartDiagnoseHub - Multi-Disease Prediction Android Application   Code

- **Tech**:- Flutter(Bloc-Cubit), Node.js, Express.js, **JWT**, Flask, MongoDB Atlas
- **Idea:** SmartDiagnoseHub enables users to **predict** the presence of **diseases** like Diabetes, Parkinson's, and Heart Disease based on report values. Users access detailed disease descriptions, relevant solutions, and can track their disease history.
- **Implementation**:- Frontend utilizes the industry-standard **BloC-Cubits** state management library. Node.js system handles **100 concurrent requests** within a maximum of 122 milliseconds for managing user history. Disease prediction for users takes under **1-3 seconds**. Code is structured with **modular** coding style and descriptive names. Implemented ML models include **Decision Tree (96.17%)** and **Random Forest (98.25%)** for disease prediction.

Technical Skills

Languages:- C/C++, Dart, Javascript, Java, SQL
Backend:- Node.js-Express.js, Graph-QL ,SpringBoot
Frontend:- Flutter, React.js, HTML, Css
Databases:- FireBase, MongoDB, MySQl, PostgreSQL
Developer Tools:- Postman, VS Code, Git-GitHub
Core Skills:- Competitive Programming, OOP, DBMS, OS, Software Engineering

Programing Achievements

- **LeetCode**:- Solved **350+** problems, Highest Rating of **1553**, **5248**/21263 of global rank in Weekly Contest 364 and **65** days of Max Streak [Profile]
- **CodeChef**:- **2 star**, Highest Rating of **1441** and **1315**/15831 of global rank in August Long 2022 Contest [Profile]
- **HakerRank**:- **5 star** in Problem Solving [Profile]

Participations

DoubtBuddy24x7 - DotSlash7.0, SVNIT)——MERN Stack, Zego Cloud   Code

- **Idea**:- DoubtBuddy24x7 is a platform for collaborative **problem-solving** in coding community via video calls. It matches doubt-solvers with doubt-askers, acting as a centralized hub.
- **Implementation**:- Developed REST APIs in Node.js with **modular** coding style. Implemented a unique **rating algorithm** utilizing user reviews processed by **DistilBERT** NLP model. Accurate matching of doubt-askers and doubt-solvers.

NGOAlly - DuHacks3.0, Dharmsinh Desai University——MERN Stack   Code

- **Idea:** NGOAlly bridges NGOs and volunteers, facilitating **campaign creation** and **matching** volunteers with **suitable** initiatives.
- **Implementation:** Developed Node.js REST APIs to handle various functionalities like campaign creation, volunteer and NGO's Campaign feed, personilized dashboards and authentication.