Isha Pragnesh Patel

Portfolio

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EDUCATION

Dwarkadas J Sanghavi College of Engineering — Mumbai, India
Bachelor of Technology in Information Technology; CGPA: 8.42 — *Aug. 2023*

SVKM's Shri Bhagubhai Mafatlal Polytechnic and College of Engineering — Mumbai, India
Diploma in Computer Science; GPA: 9.12 — *Jun. 2020 – May. 2023*

EXPERIENCE

Social Summer of Code — Remote
Open Source Contributor — *Jun. 2024 – Jul. 2024*
- **AI Integration**: Developed and deployed intelligent chatbots using MindsDB machine learning platform, integrating seamlessly with Slack and Twitter to automate customer interactions.
- **Feature Development**: Contributed to open source projects by implementing new features, resolving bugs, and optimizing system performance, resulting in improved application stability.

Hungry Brain — Mumbai, MH
Frontend Web Developer — *Jun. 2022 – Jul. 2022*
- **Full-Stack Development**: Engineered responsive web applications using modern HTML5, CSS3, and JavaScript, delivering pixel-perfect implementations aligned with design specifications.
- **User Experience Enhancement**: Redesigned and optimized website interface with responsive layouts and interactive UI components, achieving 15% increase in user engagement metrics and improved conversion rates.

PROJECTS

BookBuddy — Smart Digital Bookshelf Application — Personal Project
React Native, Firebase, Google Books API, Camera Integration
- **Barcode Recognition System**: Developed live ISBN scanning using device camera with automatic book data population, reducing manual entry and ensuring accurate book information retrieval
- **AI-Powered Reading Assistant**: Built AI feature providing personalized book recommendations and motivational prompts to encourage users to read books from their "To Read" list.

Ask OI — Personal Project
React, FastAPI, Transformers, SQLite
- **Conversational AI**: Built AI tutor that teaches by asking guiding questions instead of giving direct answers, helping users learn through guided discovery and critical thinking.
- **Adaptive Learning**: Created system that analyzes user responses to automatically make questions easier or harder based on their understanding level and progress.

ChatApp — Group Project
React, Node.js, Socket.io, MongoDB, Cloudinary, TailwindCSS
- **Real-Time Communication**: Developed full-stack chat application with Socket.io. WebSocket integration for instant messaging, user authentication, and online status tracking.
- **Media & Authentication**: Implemented secure JWT-based login system with Cloudinary image uploads, responsive UI design, and Zustand state management for seamless user experience.

DetectX: Sign Language Detector — Group Project
Python, TensorFlow, OpenCV, MediaPipe
- **Computer Vision Pipeline**: Built real-time hand gesture recognition system using MediaPipe for hand tracking and OpenCV for live webcam video processing to improve accessibility for deaf/hard-of-hearing users.
- **Machine Learning Model**: Trained and deployed TensorFlow classification model for Indian Sign Language (ISL) gesture recognition with optimized accuracy for real-time inference.

PROGRAMMING SKILLS

- **Languages**: C, C++, Java, Python, HTML/CSS, SQL, Solidity   **Libraries/Frameworks**: NumPy, Pandas, Tensorflow, ReactJs, Express.js, Hardhat