Patel Pratham

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Profile

Entry-level Python Developer with hands-on experience in RESTful API development, socket programming, and computer vision projects. Built robust facial recognition systems using CNN and OpenCV, and developed real-time backend services using FastAPI. Eager to contribute technical expertise to innovative software products and grow within a collaborative engineering team.

Professional Experience

Bonrix software systems, *python developer*   09/2023 − 01/2024 | ahmedabad, India
- Developed multiple RESTful APIs using FastAPI, including PDF generation endpoints triggered by frontend user actions.
- Built real-time socket connections to enable seamless two-way communication between client and server for dynamic data updates.
- Designed and implemented a facial recognition module using OpenCV and multiple models, including FisherFace and Convolutional Neural Networks (CNN), for user authentication.
- Collected and preprocessed a dataset of over 400 facial images across users to train the recognition system, significantly improving prediction accuracy.
- Conducted model comparison and tuning, achieving high reliability across varying lighting conditions and facial orientations.

Education

B.tech   07/2019 − 04/2023 | Gandhinagar, India
Computer engineering
Ldrp Institude of technology and research

Skills

IDE	**Database**
vscode,pycharm	Mysql
Python	**HTML**
CSS	**JAVSCRIPT**
MYSQL	**Git**
Github	**Flask**
Django	**React js**

Projects

Covid 19 prediction using x ray, *Machine learning*
A system is develop to predict covid-19 using chest-rayThis project made with machine learning and Convolution Neural Network to analyse image and Streamlit for frontend.The final CNN model was also integrated with a user interface and hosted on web server for easy access which allows anyone to upload the chest x-ray image from his computer and check the result.

Face recognition attendance system, *Machine learning*
Face recognition attendance system is an automated system that uses facial recognition technology to record the attendance of employees. This system is designed to reduce the burden of manual attendance tracking and to provide a secure and accurate way to record attendance.this project is made with fisherrecognizer to capture the images and openCV is used to train the model,

Truth-tellar-ai-vision, *Deepfake detection web app*
Developed a web application that detects whether an image or video is a deepfake. The app allows users to upload manipulated media for analysis, with customizable settings such as:
- Analysis Type: Select the detection approach.
- Sensitivity Level: Adjust sensitivity to detect subtle manipulations.
- Manipulation Region Detection: Identify specific areas in the media that may have been altered.
- Accuracy Prioritization: Optimize detection for higher confidence in results.
Users can access additional features, such as analysis history, through a secure login and signup system, unlocking advanced tools and personalized options.

Electric Vehicle Recharge Bunk Web Application,   04/2025 — present
Project for managing electric vehicle charging stations and booking
- Technologies Used: React, TypeScript, Firebase, Django, Firebase Firestore, Firebase Authentication, Django Admin, Tailwind CSS, Lucide Icons, React Dialogs, React Hooks
- Developed a web application to display nearby electric vehicle charging stations with real-time data fetched from Firebase Firestore.
- Created an interactive UI using React and Tailwind CSS, allowing users to view charging station details and get directions to the stations.
- Integrated Firebase Firestore for managing station data, including real-time updates of station availability and pricing.
- Utilized Firebase Authentication to manage user authentication for accessing the platform.
- Used Django Admin to efficiently update and manage charging station details from the backend.
- Added features such as dynamic search functionality and station details dialog to improve user experience.

Internship program

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Participate in internship program of python with django by brainly beam technologies.

Courses

Crash course on Python, *Google,Coursera*

Python for Data Science, *NPTEL*