

# Jainee Patel

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## WORK EXPERIENCE

### Python Developer

November 2024 - Present

*Tridhya Tech*

*Ahmedabad, Gujarat, India*

- Developed an AI-powered messaging platform using Python and Django, featuring real-time one-on-one and group chats via Django Channels, and implemented an NLP-based fraud detection system using TF-IDF with Naïve Bayes and Random Forest models; further enhanced with continuous learning, retraining, and optimized APIs for user management, subscriptions, and flagged content handling.
- Designed and developed a RAG-based question-answering system using FastAPI and LangChain, leveraging FAISS for efficient vector search and Gemini embeddings for accurate semantic retrieval; integrated LLMs for natural language generation and contextual memory handling, enabling precise and context-aware responses.
- Utilized Google Cloud OCR and Chirp for detecting text in images and converting audio to text, respectively, in a project.
- Technologies used across projects: Python, Django, FastAPI, LangChain, Gemini LLMs, Scikit-learn, FAISS, NLP, Django Channels, Google Cloud OCR, Chirp, Postgres.

## EDUCATION

### Lok Jagruti Institute of Engineering and Technology

Ahmedabad, Gujarat, India

*Bachelor of Engineering in Information Technology*

*Nov 2022 - June 2026*

### Solarish Public School

Gujarat, India

*11th and 12th*

*2020 - 2022*

### The H B Kapadia New High School

Gujarat, India

*Completed 10th with 80 pct.*

*2013 - 2020*

## PROJECTS

### EventAgent | *Python, LangChain, LLMs(Gemini), Google Calendar API, FastAPI, Streamlit, NLP*

- Developed an LLM-powered AI agent for automated event scheduling and calendar management.
- Integrated Google Calendar API to schedule, modify, and retrieve events seamlessly.
- Leveraged LangChain and LLMs(Gemini) for natural language understanding, intent recognition, and contextual memory.
- Designed a FastAPI backend with a Streamlit-based frontend for user-friendly prompt-based interactions.
- Enabled users to book events via text prompts, leveraging NLP for intent detection and slot filling.

### HomePredictor | *Python, XGBoost, Streamlit, Matplotlib, Scikit-learn*

- Developed a Streamlit-based application for house price prediction using Python and Matplotlib.
- Conducted detailed Exploratory Data Analysis (EDA) to identify key factors influencing house prices.
- Implemented feature engineering and XGBoost, a Gradient Boosting Machine Learning model, for accurate predictions.
- Designed an intuitive user interface using Streamlit allowing users to input features and predict property values.
- Utilized Scikit-learn for model evaluation and performance optimization.

### EventShala | *Django, DRF, JWT, React, HTML, CSS*

- Developed a full-stack event management platform with Django REST Framework (DRF) as the backend and React as the frontend.
- Integrated secure user authentication using Django JWT and implemented seamless payment processing with Payment Gateways.
- Implemented category-based filters to enhance event discovery and improve user experience.
- Enabled users to view and manage detailed event information directly from their profiles.
- Designed robust functionalities for event creation, deletion, and real-time order tracking.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, HTML/CSS, Java

**Databases:** PostgreSQL, Redis, MongoDB, MySQL, Vector Databases (FAISS)

**Web Frameworks & Libraries:** Django, FastAPI, Flask, React, Streamlit, JWT

**AI/ML/DL:** LLMs, LangChain, RAG, NLP, NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV

**APIs & Integration:** RESTful APIs, Google Calendar API, RBAC

**Developer Tools:** Git, VScode, Jupyter Notebook

## POSITION OF RESPONSIBILITY

### Head of Editing | *LFA-Magazine*

March 2024 - Present

- Managed and Collaborated with the editorial team to curate and refine content, including poetry and articles.

### Head Coordinator of Badminton | *Carpediem-Sports Day*

- Managed more than 100 matches and arranged the required set-up for Badminton