# Pankaj Chaudhari

## Python | Django & AI Developer

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Analytical and results-driven **Python & AI Developer** with over **4 years of experience** in building scalable applications and APIs. Specializes in **Django** and **Generative AI (GenAI)**, with a proven track record in developing chatbots. Designing robust backend and integrating AI models into production to deliver high-impact solutions for enterprise clients.

## WORK EXPERIENCE

### Chetu India Pvt Ltd · Noida · 10/2023 - Present
**Python Django&AI Developer · Full-time**

- **Roles & Responsibilities:**
- Engage with clients during weekly calls to provide updates and address concerns, while maintaining daily communication via Slack for timely responses and query resolution. Managed the full development and deployment lifecycles effectively.

### TATA AutoComp Systems · 08/2022 - 10/2023
**Python Developer**

- **Roles & Responsibilities:**
- Developed robust backend solutions using DRF and core Django-based web applications.
  Collaborated with cross-functional teams to gather requirements and support the software development lifecycle.

### Sequelstring Solutions Pvt Ltd · 01/2022 - 07/2022
**Python Developer(Trainee)**

## PROJECTS

### Google Ads & Microsoft Ads Analytics Dashboard

- Architected & developed a full-stack dashboard (Django + ReactJS) for Google & Bing Ads.
- Implemented secure JWT authentication and scalable REST APIs to fetch campaigns.
- Built interactive dashboards with Plotly (line, bar, scatter) for KPIs & competitor analysis.
- Delivered AI-powered insights for campaign optimization, reducing manual reporting.

## SKILLS

### Backend & Cloud
- Python
- Django
- DRF
- Flask
- FastAPI
- Celery
- Docker
- AWS (EC2, IAM, S3, Lambda, RDS)
- CI/CD (Jenkins)
- PostgreSQL
- MySQL
- SnowFlake
- Redis
- RabbitMQ

### AI/ML & GenAI
- AI Chat Agents
- RAG Pipelines
- OpenAI API
- LangChain
- LLMs
- Llama 3
- NLP
- Text Generation
- Computer Vision (Object Detection, Segmentation, Keypoint Detection)
- Image Processing
- YOLOv8
- Detectron2
- Roboflow

- Enabled multi-account performance reports, giving clients a consolidated overview.

## AI Chatbots & RAG-based Solutions

- Enterprise Policy Chatbot: Built using LangChain + Llama 3, allowing employees to query HR policies.
- Google Ads Reporting Agent: Automated campaign insights & emailed reports, reducing manual work by 70%.
- Cricket RAG Chatbot: Built with Django + LangChain + Llama 3 + Milvus; supported document ingestion (PDF, CSV, DOCX, TXT) and conversational memory.
- Designed REST APIs (query_chatbot, clear_chat) to serve chatbot responses to frontend.

## RideShare Application (Django REST + Real-time Services)

- Architected a student-focused ride-sharing app with Django REST Framework.
- Integrated RabbitMQ for async notifications and Redis + WebSockets for real-time communication.
- Implemented JWT authentication, live ride tracking, and push notifications.
- Deployed production-ready backend with scalability & concurrency handling.

## Legal-Talk AI ChatBot

- Developed a specialized Legal-Talk AI ChatBot focused on the laws of Dubai
- Designed and implemented APIs using Django REST Framework (DRF) to integrate machine learning models that facilitate accurate legal responses.
- Employed advanced techniques, including text splitting, embedding modules, and leveraging OpenAI and Anthropic models, to optimize the chatbot's performance.
- Fine-tuned the model with carefully crafted prompts, enhancing its ability to provide precise legal advice and insights tailored to user needs.

## AI Kitchen Modernization & Dimension Analysis

- Developed an AI application that transforms user-uploaded kitchen images into modern renderings.
- Annotated 20,000+ kitchen images and trained YOLO and Detectron models using high-performance GPU CUDA.
- Created a solution to analyze kitchen dimensions and equipment, offering tailored modernization suggestions.
- Integrated real-time product availability and price comparisons from nearby stores.

**Other**

- GIT
- GItHub
- SVN
- Microservices
- Automation
- Agile Methodology
- WaterFall Methodology

## EDUCATION

**Full Stack Python Development (Post Graduate Program)**
**IT Vedant**
GPA: 9.3
01/2021

**B.E. – Computer Science**
**Wisdom Institute of Engineering and Technology**
01/2017

**Diploma – Computer Science**
**Intellectual Institute of Management & Technology**
GPA: 7.3
01/2014

## HealthHub Medical Web Application

- Designed and implemented the complete backend and database architecture for the HealthHub medical web application using Django REST Framework.
- Developed robust APIs for a React.js frontend, ensuring seamless data integration and user experience.
- Leveraged Celery for asynchronous task management, along with webhooks and signals for real-time updates.
- Incorporated Redis for caching and improved performance, delivering a highly efficient solution tailored for healthcare providers and patients.