PRIYANK SALOT

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SUMMARY

Passionate about building intelligent and scalable systems using Python, Django, and FastAPI, with a strong focus on backend development, API design, and delivering maintainable code. Skilled in applying machine learning techniques for prediction, classification, and automation, and experienced with Generative AI tools such as GPT, Gemini, and LangChain to create smart assistants and content-driven solutions. Actively exploring agentic AI frameworks like CrewAI to design multi-agent, task-based workflows. Familiar with OCR, speech-to-text, and document understanding pipelines, and committed to delivering reliable, efficient, and responsible AI applications that address real-world challenges.

TECHNICAL SKILLS

Python
Tensorflow/Pytorch
Deep Learning
FastAPI
Docker

LLM
Machine Learning
Computer Vision
Pandas
Vertex AI (GCP)

CrewAI
Django
Langchain
SQL

PROFESSIONAL EXPERIENCE

Software Engineer(AI/ML) **June 2024 - Present**
NeoSOFT I Ahmedabad, India

- At NeoSOFT, worked on multiple AI and web projects for client DB Corp (Dainik Bhaskar), delivering AI/ML-powered solutions and scalable web platforms to improve content processing and personalization.
- Designed and implemented On-Demand Forecasting models for Nitrogen Oxide (NOx) emissions at Billings Refinery, enabling accurate and timely environmental impact predictions.

Python Developer **Apr 2023 - May 2024**
Swan Softweb Solutions I Ahmedabad, India

- Worked on ATLAS Property Management & Real Estate Platform, handling end-to-end development, API integrations, and performance optimization. Implemented machine learning models for property price prediction and user-based property recommendations.

Python Intern **Aug 2022-Mar 2023**
Infolabz I Ahmedabad, India **-**

- Worked on Django framework and strengthened core Python skills by building and deploying an e-commerce website. Gained hands-on experience in backend development, database handling, and web application workflows.

EDUCATION

Master of Computer Applications **Aug 2023 - Apr 2025**
Gujarat Technological University I Ahmedabad
Bachelor of Computer Applications **Jul 2020 - Apr 2023**
Som-lalit Institute of Computer Application I Ahmedabad

PROJECTS

AI Solutions for DB Corp Ltd (Newspaper Publishing)

- Developed a powerful SQL Agent using a multi-agent architecture with CrewAI, designed to process and respond to complex queries over large-scale databases. Integrated with Google Gemini models for natural language understanding, the agent enabled editorial and business teams to interact with structured data conversationally. It significantly enhanced query response speed and accuracy, achieving an estimated 85% improvement in retrieval efficiency and reducing manual SQL intervention.
- Designed a Banner Cost Prediction System leveraging machine learning models trained on Dainik Bhaskar's historical pricing data and current market trends. The system operates through a multi-agent setup: one agent handles data preprocessing and prediction, another generates dynamic pricing documents, and a third facilitates direct sharing with clients. This automation reduced campaign proposal turnaround time by over 60%, while improving pricing accuracy and consistency.
- Implemented Speech-to-Text and OCR solutions to support large-scale content digitization across newspaper archives. Used Recognizer and AudioFile libraries for transcription with over 92% accuracy, and built OCR pipelines using Tesseract and Google Gemini 1.5 Pro to extract text from scanned documents and handwritten notes. Additionally, fine-tuned GPT-3.5 Turbo and GPT-4o models to assist with editorial content generation, improving coherence, tone, and contextual relevance of generated stories. Integrated automated content validation checks to uphold editorial quality standards.

Technology Used: Python, CrewAI, OpenAI models, Gemini models,Tesseract OCR, Speech-to-Text APIs, Scikit-learn, PostgreSQL, LangChain

On-Demand Forecasting of Nitrogen Oxide Emissions Billings Refinery

- Developed a robust end-to-end pipeline for forecasting nitrogen oxide (NOx) emissions in real-time using open-source machine learning tools. The project focused on predicting pollutant levels from sensor data to support environmental compliance and operational efficiency at Billings Refinery.
- Key contributions included designing automated ETL scripts to ingest and transform raw sensor data into meaningful features using inferred tags. Applied exploratory data analysis (EDA) and correlation analysis to identify key variables and improve model accuracy. Built and deployed ML models using Scikit-learn, with hyperparameter optimization through grid search. Integrated a real-time prediction system with live benchmark tracking to monitor model performance and retrain as needed for continuous improvement.

Technology Used: , Scikit-learn, Pandas, NumPy, Matplotlib

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ATLAS Property Management & Real Estate Platform

- Contributed to the end-to-end development and improvement of a large-scale property management platform. Built and optimized REST APIs for core functionalities, implemented secure authentication workflows, and handled data migration from third-party APIs into the system. Enhanced code efficiency and backend logic to improve performance and maintainability. Integrated data pipelines to store and process property information effectively in PostgreSQL. Implemented machine learning models to predict property prices based on location, size, and amenities, and developed recommendation logic to suggest suitable properties based on user behavior analysis.

Technology Used: Django, Python, PostgreSQL, Machine Learning