Akshay Satasiya

AI-ML Engineer

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Profile

AI/ML Developer with over **a year of experience**, specializing in **Generative AI, Agentic AI, LLMs,** and **advanced AI/ML technologies**. Proficient in Python and key ML/DL libraries, with a strong foundation in developing, fine-tuning, and deploying AI models. Skilled in leveraging **Azure, AWS,** and **GCP** for cloud-based AI solutions and seamlessly integrating models into production-ready APIs. Adept at delivering data-driven insights, optimizing AI workflows, and collaborating effectively to drive impactful project outcomes.

Professional Experience

Jr. AI/ML Developer   2024 Jul – present

Nexgits Pvt. Ltd., Ahmedabad

- Spearheaded the development of generative AI solutions for chatbots and OCR projects, leveraging Azure Cognitive Services, OpenAI, and Azure Machine Learning to enhance functionality and user experience. Improved processing efficiency by integrating scalable AI models with cloud-based services.
- Engineered a wine label detection system, creating a labeled dataset, training a TensorFlow model, and integrating Azure Custom Vision for real-time, high-accuracy classification.
- Designed an AI chatbot using OpenAI and RAG, implementing semantic matching for personalized responses, boosting user engagement and satisfaction.
- Building a customer service bot with IVR for real-time call support and Azure Speech Services, leveraging Generative AI for natural-language interactions, optimizing call handling efficiency.

AI-ML Trainee   2024 Jan – 2024 Jun

Upforce Tech., Ahmedabad

- Collaborated with cross-functional teams to integrate AI solutions.
- Engineered and fine-tuned generative AI and LLMs for text generation and image synthesis, leveraging AWS services (EC2, S3, Lambda) to deploy scalable models, enhancing efficiency and reducing latency.

Education

Master of Computer Application   2022 Aug – 2024 May

L. D. College of Engineering | Ahmedabad

Bachelor of Business Administration   2019 – 2022

Gujarat University | Ahmedabad

Skills

Programming Languages: Python Programming

Machine Learning: Supervised, Unsupervised Learning, Time Series and Reinforcement Learning

Deep Learning: Neural Networks, Computer Vision, NLP, LSTM, Transformer

Generative AI: Agentic AI, Chatbots, LLMs, Conversational AI, Prompt Engineering, OCR, RAG, CAG

Frameworks: TensorFlow & Keras, PyTorch, Scikit-Learn, LangChain & Llama-index, OpenCV

Cloud Services: AWS, Azure and Google Cloud

Tools: Git & GitHub, Postman, Jupyter, VS Code / PyCharm

Databases: MySQL, SQLite, PostgreSQL

Projects

Diamond Price Prediction ⧉
Machine Learning
- Engineered a predictive model for diamond prices, created a seamless data transformation pipeline, and developed a user-friendly app.
- Achieved a 20% increase in valuation accuracy and reduced manual processing time by 40%.

Football Match Analyzer ⧉
Computer Vision
- Engineered a project leveraging YOLO object detection model to analyze football matches, accurately tracking players, referees, and the football, enhancing analytical capabilities and reducing manual tracking time.

Trip-Planner-Agent ⧉
GenerativeAI/CrewAI
- This project aims to help users create detailed travel itineraries, select the best cities for travel, and provide in-depth city guides.
- The application leverages various AI agents with specific roles to enhance the travel planning experience.

Chat With Documents ⧉
GenerativeAI
- This project demonstrates an innovative approach to interacting with various document formats using AI models.
- It leverages the power of the LlamaIndex and LLM models like Gemini and OpenAI to embed and respond to user queries, providing a seamless chat experience with documents.

Courses

Data Science Masters ⧉   2023 Jul – 2024 Jun
PW-Skills
- Acquired comprehensive knowledge and hands-on experience in Data Science, including Machine Learning, Deep Learning, NLP, and Computer Vision.