Devam Kathane *Data Scientist*

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📇 Profile

Skilled Data Scientist specializing in Generative AI and machine learning. Expert in AI solutions like chatbots and recommendation systems, with cloud deployment experience on AWS and Azure. Strong communicator with customer-facing experience, committed to continuous learning.

💼 Professional Experience

Data Scientist
KJX Softtech

Jan 2024 – present

AskToMentor:

- Fine-tuned pre-trained AI models to develop skill-specific quizzes, adaptive exams, and scenario-based tests using Generative AI.
- Designed and implemented personalized recommendation systems using AI to match mentors and mentees based on profile analysis.
- Integrated NLP models for exam creation, performance evaluation, and mentor profile analysis.
- Deployed the platform on AWS using Docker, with MongoDB for data storage and management.

Poopy AI:

- Built an AI platform to process multiple content types (PDFs, YouTube videos, audio files) for generating summaries and Q&A sessions.
- Implemented Retrieval-Augmented Generation (RAG) for accurate multi-source content processing.
- Integrated external APIs and services for advanced content analysis and chatbot integration.
- Managed MongoDB, used Redis for caching, and deployed the system on AWS using Docker.

Generative AI Projects:

- Developed RAG applications for improved document retrieval and chatbot enhancement.
- Built and deployed chatbots using Google Dialogflow CX, integrated into workflows, and optimized LLM-based applications with Langchain.
- Managed and deployed models on AWS SageMaker and Bedrock, ensuring performance and security.

RailKafe & JunkBazar:

- Developed APIs for RailKafe, including real-time train status and PNR checking, and built a conversational chatbot for train inquiries using NLP techniques.
- Created a scrap price recommendation system for JunkBazar, leveraging machine learning models to predict prices.
- Deployed APIs on AWS with Elastic Load Balancer for scalability and performance.

🧠 Skills

Programming Languages

- Proficient in Python and relevant libraries

Generative AI

- Retrieval-Augmented Generation (RAG), Fine-Tuning, Large Language Models (LLMs - GPT, BERT), Text Generation, LangChain, HuggingFace, Transformer-based models, Text generation, model fine-tuning, Transformer models

Machine Learning and Deep Learning

- Data cleaning/preparation, model training, evaluation, and deployment (KNN, Clustering, Tree-based models, SVM, CNN, RNN, LSTM, NLP)

Data Visualization

- Tableau, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Bokeh

Deployment & Cloud Services

- AWS (SageMaker, Bedrock), EC2, Beanstalk, S3, Elastic Load Balancer, Azure Functions, Google Cloud Platform(GCP), Flask, Docker

Web development

- HTML, CSS, JavaScript, Flask/FastAPI integration

Database & Tools

- MySQL, MongoDB, Vector Databases(Pinecone, ChromaDB, Weaviate, Azure Cosmos), Redis
- Linux, Windows, OCR Tessaract, Postman, Streamlit

Soft Skills

- Problem-solving, Analytical thinking, Customer-facing, Multitasking, Time management

🎓 Education

Bachelor of Engineering

Nagpur, India

S.B Jain Institute of Technology, Management and Research

📜 Certificates

upGrad KnowledgeHut
Data Science bootcamp