

SAMIULLAH

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AI DEVELOPER

AI Developer with extensive experience in machine learning, Back-end development, and AI solutions. Proficient in designing robust back-end systems, deploying RESTful APIs, and creating advanced chat-bots using vector databases. Skilled in developing recommendation systems and deploying solutions on various cloud platforms. Passionate about leveraging AI to drive innovation in the tech industry.

STRENGTHS AND EXPERTISE

Python	Machine Learning	NoSQL Databases (MongoDB)
NLP - RAG Chatbots	AI Solutions	Cloud Deployment
Backend Development	RESTful APIs	Data Preprocessing and Analysis

PROFESSIONAL EXPERIENCE

Octaloop Technologies

November 2023 - Present

AI Developer

Spearheaded AI development at Octaloop Technologies, designing robust back-ends. Engineered advanced RAG chatbots, fine-tuned GPT models, and deployed scalable solutions on multiple cloud platforms, driving significant advancements in AI technology and operational efficiency.

Accomplishments:

- Designed comprehensive back-ends with robust user authentication, seamless payment integration, and efficient text extraction using OCR.
- Developed and deployed RESTful APIs.
- Engineered RAG chat-bots utilising vector databases like Qdrant, Pinecone, and FAISS. Fine-tuned GPT models and integrated ChatGPT across multiple platforms.
- Built recommendation systems for e-commerce stores using scikit-learn and other machine learning libraries.
- Deployed solutions on several cloud platforms, including DigitalOcean, Render, Heroku, and Koyeb.
- Created chatbots on websites using no-code platforms like Botpress and ChatbotBuilder.io.
- Contributed to machine learning and AI projects, driving innovative solutions

InsightSolTechnologies

November 2023 - November 2023

Machine Learning Engineer

Gained hands-on experience in developing and implementing machine learning models, enhancing skills in data preprocessing and analysis during an internship.

Accomplishments:

- Developed and implemented machine learning models.
- Data preprocessing and analysis to ensure accurate model training.

Darvis
AI Training Engineer

March 2023 - November 2023

Experienced in designing and implementing data annotation processes to support AI and machine learning models. Proficient in creating and maintaining datasets with a keen attention to detail.

Accomplishments:

- Designing and implementing Data annotation processes that align with the needs of the AI and machine learning models, creating and maintaining datasets.
- Gained hands-on experience in the data annotation department, and actively engaging in the utilization of Computer Vision Annotation Tool (CVAT) to meticulously annotate images.

PROJECTS

Boat-AI

November 2023 - January 2024

Boat AI is a cutting-edge chatbot built with advanced tech. It uses OpenAI for NLP, is made with RAG (Retrieval-Augmented Generation), and leverages MongoDB for data storage. Python integrates everything seamlessly, providing detailed and accurate information on boat models, features, and more

HostGuru

February 2024 - May 2024

Developed a unified chat and engagement platform for short-term rentals and hotels using NLP with RAG, OpenAI, MongoDB, and Python. Integrated with various messaging APIs and top property management systems (PMS), it consolidates multiple communication channels into a single inbox.

Teesney

May 2024 - June 2024

I integrated AI-driven functionalities into the platform using DALL-E 3 for personalized print generation, Scikit-learn for a recommendation model based on user data, and a RAG-based chatbot for interactive product suggestions. The chatbot uses LangChain and Qdrant for retrieval-augmented responses, while OpenAI enhances image quality and repositioning in mock-ups. Additionally, a Flask API and MongoDB manages user attempts and proxy data from Teesney's API, optimizing the user experience with advanced AI techniques.

Herbal Advisor

July 2024 - July 2024

Developed an AI-powered health assistant chatbot for MyHerbalAdvisor.com using Chatbotbuilder.ai for conversational flow. Integrated Gemini 1.5 Flash for tongue image analysis and GPT-4 API for health insights and dynamic follow-up questions. Provided personalized herbal product recommendations and a comprehensive report based on Traditional Chinese Medicine. Implemented secure user accounts and data storage in Google Sheets for personalized experiences.

EDUCATION

COMSATS University Islamabad (CUI)
B.Sc. Electrical Engineering

September 2018 - August 2022

GLOBAL SYSTEM OF INTEGRATED STUDIES
GCE Advanced Level, Pre-Engineering

March 2015 - November 2017