

KUSHAL RANA

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WORK EXPERIENCE

Rapid Autobots

Jan 2024 – Jun 2024

Associate AI Developer

Kerela, India

- Led the development of an AI-powered and context-aware chatbot for a dropshipping e-commerce platform using OpenAI API, enhancing client interaction by delivering detailed product, order, and store insights.
- Designed and implemented a system to export data to Excel and stored SQL-generated conversation logs in MongoDB for future LLM fine-tuning, optimizing cost efficiency, and enabling advanced data analytics.
- Technologies used:** Python, NLP, FastAPI, Langchain, Redis, MySQL, MongoDB, Dockerization, DigitalOcean, VS code, Linux, Git.

PROJECT

GPT Powered AI Chatbot | (Link to Demo)

- Developed an AI-powered web application integrating two distinct chatbots for specialized domains, enhancing user interaction through context awareness and advanced natural language processing capabilities.
- Implemented a medical chatbot using the RAG framework and LangChain, leveraging a vector database for efficient retrieval from medical literature, deployed using Flask and Docker for scalable deployment on Render.
- Technologies used:** Python, FastAPI, Langchain, vector database, Dockerization, NLP, LLM, Render, Git.

End to End Recommendation System | (Link to Demo)

- Developed a cutting-edge content-based recommendation system by harnessing Python and advanced machine learning methodologies. This system offered tailored suggestions for images and posts, enhancing user engagement and satisfaction.
- Implemented a scalable API integration solution with FastAPI, supported by Render Cloud for robust scalability, and managed data storage through MongoDB.
- Technologies used:** Python, Machine learning, Data analysis, API integration, Render Cloud, Docker. MongoDB Database.

EDUCATION

I.K. Gujral Punjab Technical University

Sep. 2020 – July 2024

Bachelor of Technology in Computer Science and Engineering (CGPA- 8.0)

Mohali, Punjab

TECHNICAL SKILLS

Languages: Python, C, C++, HTML/CSS, SQL

Developer Tools: VS Code, DVC, ML flow, Docker, MongoDB, vector database, PostgreSQL, Jenkins, CI/CD Pipeline

Technologies/Frameworks: RESTfuls API, FastAPI/Flask/Django, Micro-services, Langchain TensorFlow, LLM, NLP, Object Detection.

RELEVANT COURSEWORK

- | | | | |
|------------------------|---------------------------|------------------------|---------------|
| • Data Structures | • Database Management | • Computer Network | Deep Learning |
| • Software Methodology | • Artificial Intelligence | • Machine learning and | |

EXTRACURRICULAR

Bharat Tech Experience Hackathon

28-29 Oct 2023

Team name : InQbator

Organized by GDSC-SVIET

- * Secured 3rd place in a competitive field of 60+ teams with a proficient 4-member team.
- * Collaborated effectively to engineer innovative solutions for complex real-world tech challenges.
- * Demonstrated agility, ingenuity, design, and coding expertise in a high-pressure environment.
- * Leveraged networking opportunities to stay abreast of cutting-edge industry trends and best practices.