MANSUKH SINGH

PYTHON DEVELOPER

✉ mansukh11singh@gmail.com
📞 +91 8860203169
🔗 linkdin/mansukh-singh
🌐 github/mansukh-singh
📍 New Delhi, India

SUMMARY

- Bringing over 1.5 years of hands-on experience as a Python developer, adept in leveraging diverse development environments, including VS Code, Jupyter Notebook, Replit, and PyCharm, to deliver efficient and effective solutions.
- Proficient in Flask and Django web frameworks, showcasing expertise in efficient and effective web development.
- Hands-on-experience in database management with MongoDB, MySQL, and SQLite.
- Skilled in crafting efficient, maintainable code and dedicated to staying updated with industry trends. Seeking opportunities to apply my Python development skills to innovative projects.

WORK EXPERIENCE

Intern, Techchefz (TCZ DIGITAL PVT LTD), Noida, UP —————— **Mar 2022 - Oct 2022**

Easy Platter

- Successfully scraped recipe names and descriptions from multiple websites using web scraping techniques.
- Implemented Named Entity Recognition (NER) to extract quantity, name, and unit of ingredients.
- Developed a custom spaCy model trained on tagged data for precise extraction of recipe elements from sentences.
- Utilized Python, BeautifulSoup and spaCy for data extraction and NER.

Authentication System To Avoid Shoulder Surfing

- Designed a secure login system using patterns to protect user credentials from shoulder surfing attack.
- Implemented a three-phase authentication process: Registration, Verification, and Login.
- Utilized Django ORM for efficient data management using SQLite database during user registration.
- Utilized Django, MySql, HTML, CSS, JavaScript.

Associate, Techchefz (TCZ DIGITAL PVT LTD), Noida, UP ————— **Nov 2022 - Dec 2023**

Stride Learning Hub

- Gathered information from external APIs, generated embeddings for essential fields using Hugging Face embeddings, and seamlessly integrated the data into OpenSearch.
- Spearheaded the implementation of semantic search functionality within OpenSearch to enhance recommendation systems.
- Contributed in the development of a chatbot by leveraging resources from LangChain documents.
- Utilized Python, Opensearch, Langchain, OpenAI and Pandas, Sentence-Transformers, HuggingFace.

EDUCATION

Bachelor of Technology in Computer Science　　　　　　　　　**Aug 2018 - June 2022**

- Manav Rachna International Institute of Research and Studies

PERSONAL PROJECTS

LangChain Q&A Bot

- Developed an intelligent Question and Answering bot using LangChain.
- Implemented a system allowing users to upload PDF file and pose questions related to the content.
- Utilized Pinecone Vector Database to store embeddings of the text extracted from the PDF file.
- Libraries used : Langchain, Fastapi, Streamlit.

Semantic Movie Recommendation System

- Implemented a movie recommender system using semantic search with Elasticsearch.
- Utilized the sbert model to generate embeddings for essential fields, storing them efficiently in the Elasticsearch index.
- Engineered a responsive system to retrieve relevant responses based on user queries.
- Libraries used : Elasticsearch, Pandas, Sentence-Transformers, Streamlit.

Book Scrape

- Engineered a Flask-based web app for scraping and showcasing book details.
- Integrated MongoDB to streamline data management for efficient storage.
- Contributed to a user-friendly platform, showcasing web development skills.
- Libraries used : BeautifulSoup4, Flask, PyMongo.

SKILLS

- Python
- Pandas
- Numpy
- Django
- Flask

- Elasticsearch
- FastAPI
- Langchain
- OpenAI
- Spacy

- Docker
- Postman
- BeautifulSoup
- MongoDB
- MySQL

- HTML
- CSS
- JavaScript
- HuggingFace

ACHIEVEMENTS

- 7 weeks online on Programming for everybody (python) | Coursera.
- Learn My Sql - For Beginners | Coursera.
- 8 weeks on data science course | 4 Achievers.
- 9 month internship as a Python Developer at Techchefz (TCZ DIGITAL PVT LTD).