SURYA PRATAP

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OBJECTIVE

Aspiring Senior Data Scientist with expertise in AI/ML, particularly in LLMs, NLP, and RAG, aiming to drive innovative solutions. With a strong foundation in Python, deep learning frameworks, and hands-on project experience, I seek to contribute to cutting-edge AI development and optimization.

EDUCATION

Master in Computer Application

Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India

July 2023 – July 2025**|** SGPA – 8.1

Bachelor of Computer Application

Asian School of Business, Noida, Uttar Pradesh, India

July 2020 – July 2023 **|** CGPA – 8.1

EXPERIENCE

Machine Learning Developer| **Ashoka University**   Remote | **Dec 2023 – Jul 2024**

- Developed a Full Stack Website in collaboration with a team of 5 for Ashoka University, facilitating data analysis and workspace creation for faculty and students.
- Collaborated in a team of five, leading data collection, mining, and analysis, and implemented automated semantic data annotation for improved accessibility.
- Implemented an automated solution for semantic annotation of data, enabling efficient detection of key elements such as names, addresses, genders, and more, enhancing data accessibility and usability.

SKILLS

Programming Languages: Python, SQL, PostgreSQL, Flask, FastAPI, TensorFlow, PyTorch, OpenAI, OpenCV, Docker, Git, GitHub, HTML/CSS

AI/ML Techniques:

- **NLP, LLMs (**Llama2, Llama3, Mistral, Stable Diffusion, Gemini, OpenAI GPT), **RAG** (ChromaDB, MongoDB)
- **Deep Learning:** CNN, Fine-Tuning LLMs, Prompt Engineering
- **Data Analysis:** Pandas, Numpy, Scikit-Learn, Power BI, Excel

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PROJECTS

Gemini AI Chat with Streamlit

Deployed Link - https://baymexai.streamlit.app/

Github Repo - https://github.com/SP85691/GeminiAI_ChatBot

- User-friendly chat interface powered by Gemini AI for seamless interaction and conversational responses.
- Developed with Streamlit, integrating Gemini AI model, pip dependencies, and Google AI Studio API key configuration.

FastAPI User Authentication System

Github Repo - https://github.com/SP85691/User_Authentication_System

- Robust, secure user authentication system with CRUD operations.
- Secure authentication with FastAPI, Alembic migrations, Docker deployment, PostgreSQL storage, and full CRUD support.

Semantic Annotation Analysis

GitHub Repo - github.com/SP85691/CDSA_Semantic_Annotation_Analysis

- This Python script utilizes OpenAI's GPT-3.5-turbo model to determine semantic data types of columns in a dataset. It converts the types and outputs a JSON file.
- **Tools:** include Python, Pandas, OpenAI API, and Langchain for dataset analysis.

Text to Image Generator

Deployed Link - https://stablegenai.streamlit.app/

GitHub Repo - github.com/SP85691/Text_To_Image_Generator

- The Text-to-Image Generation project employs Stable Diffusion models to convert text prompts into lifelike images, facilitated by a user-friendly Streamlit Interface.
- **Tools:** Python, Gradio, Streamlit, HuggingFace, and Stable Diffusion Models are integral tools in this endeavor.

Face Classification Model

GitHub Repo – github.com/SP85691/Face_Classification_Model

- This project utilizes OpenCV and the Face_Recognition library to generate face encodings, storing them with pickle and in a Firebase database. A GUI interface facilitates face classification, encoding matching, and individual information retrieval.
- **Tools:** Python, Opencv, KNN Model, and Firebase.

BaymexGPT (Web Application)

GitHub Repo - github.com/SP85691/BaymexGPT_Flask_App

- This Flask web application, BaymexGPT, integrates AI chatbot and text-to-image generation using OpenAI models.
- **Tools:** Python, OpenAI, Flask, Nodejs, JavaScript, HTML/CSS, Tailwind CSS, SQLAlchemy, REST API, and Hashing for user management, providing a seamless user experience.

CERTIFICATIONS

- Diploma in Artificial Intelligence, CETPA Infotech Pvt. Ltd.
- Certificate of Participation in Azure Data & AI Masterclass
- ICIDSSD 2024 Jamia Hamdard for Paper Presentation
- Introduction to LLM by Google
- Microsoft Azure Fundamentals
- Designing and implementing a Microsoft Azure AI Solution

ACHIEVEMENTS

- Presented research paper at Jamia Hamdard, received certification, and selected for publication.
- Got bronze league in Google Skill Boost
- Scaling with Google cloud operations
- Organized a Web Designing Event in Asian School of Business