Surajee Kumar S

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Summary

An innovative and detail-oriented AI and Data Science student with strong hands-on experience in developing scalable web applications using Python, Django, and PostgreSQL. Proficient in building RESTful APIs, implementing SSO-based authentication, and optimizing application performance. Demonstrated expertise in Machine Learning, Deep Learning, and integrating LLMs with NLP and RAG to build real-time, intelligent automation tools. Recognized for impactful AI-driven solutions in international research forums and hackathons.

Education

KGISL INSTITUTE OF TECHNOLOGY 2022-2026
B.Tech. Artificial Intelligence And Data Science *CGPA: 8/10*
Sri Sai Ram Matriculation And Higher Secondary Science 2022
12th Grade - Maths, Physics, Chemistry, Biology *GRADE: 83.6%*

Course Work

Courses: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Machine Learning, Artificial Intelligence, Deep Learning Operating Systems, Data Analytics

Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL, Dart

Tools: Git/GitHub, Unix Shell, VS Code, Microsoft Excel, Power BI, Andriod Studio

Frameworks: Django, Fast API, PostgreSQL, Flask, Flutter, ReactJS, Bootstrap

Libraries: Tensorflow, Pytorch, Scikit-learn, Pandas, NumPy, Matplotlib, Open CV

Databaes: My SQL, Postgrs SQL, Mongo DB

Projects

Sorting Algorithm Visualizer | *Django, Python, HTML, CSS, JavaScript, PostgreSQL, Pygame-*
https://github.com/SurajeeKumar22aib47/Algorithm-Visualizer.git Feb 2023

- Developed an interactive visualization tool using Pygame to demonstrate the working of **sorting algorithms such as Bubble Sort,Insertion Sort, Merge Sort, Selection Sort** etc**.**
- The tool allows users to choose between default and custom arrays, select visualization speeds, and provides real-time visual representation the sorting process, enhancing the understanding of algorithm mechanics.

Document Chat System | *Django, Python, LLaMA-2, LangChain, FastAPI, FAISS ,HTML, CSS, JavaScript, PostgreSQL, Pygame-*
https://github.com/SurajeeKumar22aib47/Document-Chat-with-LLaMA-2-LangChain.git Jan 2025

- Developed an AI-powered document Q&A system using **LLaMA-2 and LangChain with RAG**, enabling real-time chat over PDFs, DOCX, and TXT files via semantic search and context-aware responses**.**
- Integrated **FAISS/ChromaDB for scalable vector search, FastAPI/Streamlit for deployment, and leveraged embeddings (Meta/OpenAI)** with PDF parsing tools for efficient document handling.Demonstrates practical hands-on experience in **LLM integration, prompt engineering, and vector DB usage**.

CUSTOMIZABLE LLM WITH VOICE COMMANDS (CHATBOT) | *Flask, HTML, CSS, JavaScript, PostgreSQL, Tensorflow-*
https://github.com/SurajeeKumar22aib47/Customizable-LLM.git May 2024

- Developed a **customizable LLM-powered chatbot with voice command** capabilities, providing dynamic user interaction and adaptability. Utilized Flask for back-end functionality and SQL for secure and efficient data management.
- **Implemented real-time NLP and voice recognition features**, enhancing conversational flow and user experience. Designed a responsive interface using HTML, CSS, and JavaScript for seamless interaction across devices.Easily extendable for **multi-modal LLM applications** and fine-tuning on task-specific datasets.

Automated Invoice Exraction and Management | *Python, LLM, HTML, CSS, JavaScripts, MS SQL-*

https://github.com/SurajeeKumar22aib47/aquasub_invoice.git Oct 2024

- Developed an **automated invoice extraction and management system leveraging Python, OCR, and LLMs for accurate data extraction**, **entity recognition (NER), and classification**. Integrated MS SQL for secure and scalable data storage. Integrated secure data handling and transaction processing using JDBC to interact with a MySQL database, ensuring reliable and consistent operations.
- Designed a dynamic interface using HTML, CSS, and JavaScript, enabling seamless invoice upload, real-time processing, and data management, enhancing operational efficiency and accuracy.Highlights end-to-end ownership from **LLM workflow integration** to **UI design and DB orchestration**, with a cloud-deployable structure.

Cyber Security System with Generative AI for Early Detection of Threat | *Python, Django, ML (Isolation Forest, Autoencoder,Random Forest,Multilayer Perceptron), HTML, CSS, JavaScript, Win32evtlog, CSV, OS, LLM, PostgreSQL-*

https://github.com/SurajeeKumar22aib47/Threat-Hunt-AI-Cyberlite.git Jan 2024

- Developed a real-time threat detection system using Generative AI and anomaly detection models to identify suspicious activity in network traffic, system logs, and user behavior with 98%+ accuracy.
- Implemented automated log retrieval (every 5 minutes) via win32evtlog, with classification into network, application, and performance logs; integrated with a Django web portal for real-time breach reports and system alerts.
- Designed a scalable, adaptive security solution that reduces false positives and accelerates incident response, improving cybersecurity visibility and operational defense.

HONOURS AND AWARDS

- Published research paper and received award of finalist in **2024 QS Reimagine Education Awards & Conference** held at the **QEII Centre, Westminster, London, UK.Award**
- Participated in **Googleathon 2.0 hybrid hackathon**, held at SNS College of Engineering, , where we created a **model to detect Weapon and Moniter Threat Activities in public places.**
- Completed the **Coding-Development& Advanced Enngineering Job Simulation** in **Accenture**.Link

CERTIFICATIONS

- Completed the **The Web Developer Summer Intership** in **Phinesphere Software Solution 2023** course.
- Completed the **The Complete Python Bootcamp** course.
- Completed the **The Python Full Stack and AI&ML with LLM Intership** in **Aqua Sub Engineering 2024**.Link
- Completed the **The NLP and Text Mining** course in **Simplilearn**.Link
- Completed the **GAN** course in **Simplilearn**. Link
- Completed the **Project Management** course in **Accenture**. Link
- Completed the **Data Engineering And Bigdata** course in **Guvi & HCL**.Link