Srishti Agrawal

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SKILL

Machine Learning/Deep Learning | Generative AI, LLMs, Vector-Database, RAG, Embeddings, Supervised/Unsupervised Models, Predictive Modelling, LangChain, NLP, Gradient Descent, Regularization

Data Analytics/Science/Visualization | Python, SQL, Pandas, NumPy, Seaborn, Matplotlib, Feature Engineering, Data Cleaning, Data Mining, Statistics for data science, Streamlit

Web Development | HTML, CSS, JS, ReactJS, FastAPI, Flask, Git

WORK EXPERIENCE

Full Stack AI Engineer / Walmart / Tata Consultancy Services, Bangalore   **AUG 2022 – Present**

Insights Bot: LLM-Driven Interactive SQL Query and Insight Generation System
- Developed a dynamic SQL query generation system utilizing OpenAI LLM, translating user questions into precise SQL queries across 10 tables. Achieved over 90% accuracy through comprehensive query validation prior to execution.
- Designed and integrated a mechanism that converts database data into natural language responses and interactive charts, significantly enhancing user engagement. This approach resulted in over 70%-time savings for business users in data analysis and decision-making.

Repo.AI: Catalog for AI Solutions, POCs and POTs – ISU Work
- Developed a full-stack AI Solution Catalog web app that allows users to explore across 4 distinct business domains with advanced filtering options for improved search and discovery, offering personalized recommendations based on user activity.
- Implemented secure JWT authentication for personalized sessions, enabling tailored recommendations and efficient user management.
- Tracked user activity to display the most frequently visited AI projects, providing personalized suggestions based on usage history. Developed a scalable FastAPI back-end for managing catalog data, user sessions, and project metadata with high performance in mind.

Item-Setup Automation: End-to-end Data transformation Pipeline
- Built a rule engine for data extraction and mapping, using text-based LLM for contextual processing and vision-based LLM for image analysis to fill missing fields.
- Ensured mandatory fields were populated with a Find PT Attributes module and verified data accuracy using a validation engine.
- Developed a User-Friendly Streamlit UI for template upload, pipeline execution, and stepwise template download, improving workflow efficiency.

Contact Center Migration
- Led the migration of Walmart's customer service system from Avaya to Google Dialogflow, transitioning user experience from DTMF to voice-based interactions. This shift reduced wait times by over 70% and significantly enhanced customer satisfaction through seamless call transfers.
- Integrated webhooks within Dialogflow for database connectivity and context-based actions, implemented an alerting mechanism, and automated processes to expedite project timelines, ensuring a more efficient system overall.

AWARDS & ACHIEVEMENTS

- **Star Team Award** Acknowledged for exemplary teamwork and collaboration.
- **Technical Excellence Award** Demonstrated technical proficiency through successful participation in hackathons and ideathons.
- **Applause For Team Award** Acknowledged for achieving a 100% Customer Satisfaction Index (CSI).
- **Star Performer Award** Honored for exceptional performance and contributions.
- **Best Project Award (College)** Received 1st prize for outstanding project work during college.

EDUCATION

Bachelor of Technology in Computer Science and Engineering   **9.37/10 CGPA**
Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh   2018 - 2022