Guru Prasad Kumar

+1 214-680-2977 | guruprasad1994@outlook.com | www.linkedin.com/in/kgpc1/ | kguruprasad94.github.io

Professional Summary

Accomplished analytics professional with a proven track record of developing impactful customer-facing data products using Python, SQL, and Tableau. Experienced in leading analytical projects end-to-end, with a focus on driving process improvements through automation and enabling extraction of actionable insights for data-driven decisions. Proficient in advanced ML techniques for large datasets along with knowledge in Gen AI and LLM technologies. Actively seeking new opportunities in data analytics/science and eager to take on challenging opportunities to drive innovation and propel business growth.

Skills

Languages: SQL, Python, C, C++, Java, R, SAS
Tools: Tableau, PowerBI, Databricks, Snowflake, Excel, Google Analytics, Salesforce, AWS, Postman, Github, Collibra, BigQuery
Project Management Methodologies & tools: Agile, Rally, Scrum, Jira, Confluence
Certifications: Recommender System and Deep Learning - Udemy, A/B testing (Udacity), Fine Tuning Large Language Models (Coursera), Gen AI with LLM (Coursera), Building Chatbots with Langchain (Coursera)

Experience

Capital One   McLean, VA, USA
Senior Data Analyst - Fraud Operations   *Feb 2024 – Present*
- Optimized funds availability model, reducing losses from check returns and improving customer experience. Achieved a savings of **70K** in first-party fraud losses.
- Partnered with Data Science team to develop an anomaly detection POC for monitoring digital account openings to capture potential fraud and reduce losses, with projected annual savings of **3-4M**.

Senior Data Analyst - Data Governance   *Sep 2021 – Feb 2024*
- Built an end-to-end and scalable data management tool monitoring **15** KPI's and automating daily reports to reach **500+** users. Helped remediate **20,000+** data compliance violations resulting in an improved audit rating from "Moderate" to "Strong"
- Engineered **20+** ETL jobs using SQL, Python (Spark) to extract data from diverse sources for reporting, maintained robust data pipelines with **96%** uptime for consistent high-quality data delivery
- Spearheaded data rationalization initiatives for my LOB, collaborating with cross-functional teams and enterprise partners to overcome challenges, resulting in a **25%** reduction in data inventory and successfully driving end-to-end modernization strategy
- Mentored **5** junior associates overseeing their projects, estimating efforts, and prioritizing tasks for team analytical solutions

Cognizant Technology Solutions   Chennai, TN, India
Data Analyst (SQL, Excel, Python, Tableau, Project Management)   *Dec 2016 – June 2019*
- Led a team of **4** to implement new product build requirements, feature enhancements with **100%** acceptance rate for over **10 months** and consistently met strict deadlines
- Resolved **150+** critical defects in a timely manner by collecting and investigating policy back end data using SQL which helped eliminate incalculable financial risks and liability for the client

Projects

Fine Tuning FLAN T5 with PEFT and PPO ⬈ | *LORA, Prompt engineering, Reinforcement Learning*
- Developed and fine-tuned FLAN-T5 model for dialogue summarization, leveraging advanced techniques like Prompt Engineering, PEFT, and PPO to enhance model performance and reduce toxicity in generated content.

Building Controllable AI Agents with LangGraph⬈ | *Agentic Search, LangGraph, Persistence and State management*
- Designed and implemented AI agents using LangGraph, leveraging flow-based architecture, multi-step reasoning, and enhanced state management to support tasks such as essay writing and dynamic query resolution.

Building Research Agents with Agentic RAG using LlamaIndex⬈ | *Agentic RAG, Tool calling, Router Agent*
- Engineered intelligent research agents using Agentic RAG, implementing multi-step reasoning, tool calling, and multi-document analysis to enable complex query handling and advanced document summarization.

Youtube Video Summarizer ⬈ | *Streamlit, Google Gemini*
- Developed a Streamlit-based YouTube Summarization App using Google Gemini API, enabling automatic transcript extraction and summarization of cooking tutorials into concise recipes

Book Research Tool using RAG ⬈ | *Streamlit, Langchain, OpenAI*
- Built a RAG based Book Research Tool enabling users to query academic texts for specific information, utilizing OpenAI's GPT-3, LangChain, and FAISS to deliver precise, contextually relevant answers through an intuitive Streamlit interface.

Education

University of Texas at Dallas   Dallas, TX
Master of Science in Business Analytics - Data Science Track   *August 2019 – May 2021*
Anna University   Chennai, India
Bachelor of Engineering in Mechanical Engineering   *August 2012 – May 2016*