Prasanna Kottur

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EDUCATION

The University of Texas at Arlington | Arlington, TX   **January 2023 – December 2024**
Master of Science in Business Analytics
Savitribai Phule Pune University | Pune, India   **June 2018 – May 2022**
Bachelor of Engineering in Computer Engineering

SKILLS

- **Generative AI**: LangChain, Retrieval-Augmented Generation (RAG), Prompt Engineering, Google Cloud Run, Log Explorer.
- **Analytics** – Python (Pandas, NumPy, Matplotlib), C, C++, JavaScript, Pivot tables.
- **Forecasting** – R, SAS, Tableau, Power Bi, Amazon web services (AWS) Quick sight.
- **Databases** – MySQL, MS SQL Server, Microsoft Access, SQLite 3.
- **Statistical Modeling** – NPV, Random Forest, Linear Regression, Logistic Regression, Neural Network, Clustering.
- **Cloud & IDE** – Amazon Web Services (AWS), Microsoft Azure, Anaconda, Spyder, Jupyter Notebook.
- **API Integration/Development** – OpenAI APIs, JSON.

EXPERIENCE

Reality AI Inc. | San Francisco (Remote)   **January 2025 – Present**
Generative AI Data Analyst

- Building and optimizing **Generative AI models** and workflows using tools like LangChain, OpenAI APIs, and Redis.
- Leveraged OpenAI embeddings and Redis for Vector Search to enhance real-time semantic search and recommendations.
- Collaborated with a global team on open-source AI tools to make education more accessible.
- Deployed AI services using **Google Cloud Run**, monitored performance with Log Explorer, and refined outputs through **LangSmith** for prompt optimization.

OpenQQuantify | Washington DC (Remote)   **September 2024 – December 2024**
Business Analyst Intern

- **Tracked and Improved Performance Metrics,** Tracked key performance indicators (KPIs) to evaluate and enhance marketing strategies, ensuring data-driven decision-making.
- Conducted detailed analyses to identify trends, correlations, and patterns within datasets, providing actionable insights to stakeholders.
- Built predictive models using historical data to forecast future outcomes, supporting strategic business planning.
- Developed interactive dashboards using **AWS Quick Sight** to visualize key metrics, insightful visualizations tailored to meet organizational requirements.
- Automated repetitive processes to improve efficiency, streamline workflows, and reduce operational costs.
- Implemented systems for real-time data analysis, enabling rapid response to be changing conditions and driving performance optimization.

Trip AI | Dallas, Texas   **August 2024 – December 2024**
Business Analyst | Capstone

- Achieved **AI-driven chatbots** using OpenAI's API and PandasAI to automate flight data queries, enabling users to intuitively interact with unstructured flight datasets and retrieve key information like flight routes and weight distribution.
- Built tools for **calculating critical flight metrics**, such as the center of gravity (CG) during different flight phases, and provided real-time graphical visualizations to support flight safety and operational decision-making.
- Automated the validation and organization of unstructured flight load sheet data, ensuring accuracy, filling missing values, and converting data into structured formats (e.g., CSV) for easy reporting and analysis.
- Designed interactive **dashboards** using **AWS QuickSight**, visualizing key metrics such as weight distribution, fuel consumption, and flight routes, enhancing real-time data analysis for improved operational decisions.
- Managed and processed a dataset of **250,000+ entries**, ensuring data integrity and optimizing performance for large-scale data analysis tasks, improving the efficiency of flight operations.

Funding Pips| Remote   **January 2022 – December 2023**
Trading Analyst

- Conducted **In-depth statistical data analysis in capital market** to support decision-making, utilizing tools like Moving Averages, RSI, MACD, and Fibonacci retracement to identify trends and optimize strategy recommendations.
- Implemented **risk management strategies** to optimize performance outcomes, balancing exposure and returns while supporting data-driven business decisions. Monitored and analyzed **market dynamics** and external factors, including economic reports and geopolitical developments, to provide insights that guided business strategy.
- Led **performance metrics and analysis**, and optimizing strategies based on quantitative insights, which refined organizational decision-making frameworks.
- Managed daily risk positions and **P&L portfolio**, ensuring accurate tracking and reporting to maintain financial stability and support strategic adjustments.

PROJECTS

AI-Powered Math Questions Solving Chatbot | Hugging Face, Python, NLP,
Stock Market Dashboard using Power BI| Power BI, Data Visualization, SQL, Excel
Stock Market Prediction| Python, Excel, Bloomberg

HONORS & AWARDS

College of Business/Michael and Amy Bull Endowed Graduate Fellowship Scholarship   **August 2023**