

Prasanna Kottur

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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, Quickbooks.
- **Forecasting** – R, SAS, Tableau, Power Bi, Amazon web services (AWS) Quick sight, SAP.
- **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** – OpenAI APIs, JSON.
- **Other Tools** – MS Office, MS Word, MS Powerpoint, MS Excel.

EXPERIENCE

Reality AI Inc. | San Francisco

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

September 2024 – December 2024

Business Analyst

- **Tracked and Improved Key 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 **financial models** using historical data to forecast future outcomes, supporting strategic financial planning, Annual Budgeting.
- 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 to identify trends, risks, enabling rapid response to be changing conditions and driving performance optimization.

Trip AI | Dallas, Texas

August 2024 – December 2024

Business Analyst | Capstone

- Achieved and manage multiple **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

January 2022 – December 2023

Trading Analyst

- Executed and managed Investment Research for stocks, ETFs, and Government bonds, ensuring timely and cost-effective execution while adhering to risk management protocols.
- Performed **In-depth financial data analysis**, leveraging tools like QuickBooks, IRR, and Fibonacci Retracement analysis to support portfolio management decisions.
- Utilized **Investnet Tamarac** for portfolio management, ensuring efficient rebalancing, performance tracking, and client reporting.
- Ensured compliance with internal policies, regulatory guidelines, and **risk management** procedures while executing trades.
- Conducted data audits and reconciliations to prevent trading errors and optimize portfolio performance.
- Managed daily risk positions and **P&L portfolio Income**, ensuring accurate tracking and reporting to maintain financial stability and support strategic adjustments.

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

PROJECTS

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

HONORS & AWARDS

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

August 2023