RIJUL GUPTA

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KEY SKILLS

Technical: Python (2 yrs.), SQL (2 yrs.), Pandas (2 yrs.), NumPy (2 yrs.), Microsoft Excel (2 yrs.), ETL (1.5 yrs.), AWS Glue (6mts), AWS Redshift (3mts), AWS S3(6mts), Scikit-Learn (1 yr.), Amazon Sagemaker (3 mts), Tableau (6 mts), Power BI (6 mts), API Integration (1 yr.), AWS Lambda (6 mts) UiPath (2.5 yrs.)

Business: Requirement Gathering, Project Scoping, Market Intelligence, Data Reporting & Visualization, Research & Stakeholder Management, Strategic Planning, Agile & Scrum Methodologies Quality Assurance, Customer Focus

PROFESSIONAL EXPERIENCE

Discovery Partner Institute (DPI)   **Chicago, IL**
Data Analyst   January 2024 – May 2024

- Orchestrated data gathering and cleaning to create an AI-based tool that matches researchers with grants, helping the client efficiently identify top experts for their projects.
  - Developed Python based web scraping tools to automate data extraction, reducing manual effort by 60% expanding the researcher profile database threefold, elevating the organization's ability to match researchers with grants.
  - Cleaned and structured data into JSON format using Pandas to create a vector store, enabling more accurate semantic search, cutting operational costs by 30% through quicker researcher-grant matching.
  - Tested LLM model outputs by comparing them to expected results to check model efficiency, achieving 90% accuracy in researcher recommendations, saving time and resources needed for grant allocation.

Guardian Life Insurance Company   **Gurugram, India**
Automation Developer/Analyst   June 2020 - August 2022

- Led digital transformation initiatives at Guardian, implementing RPA solutions that streamlined insurance processes, reduced costs, and improved operational efficiency.
  - Spearheaded the deployment of bots for process automation using UiPath to streamline business processes, decreasing FTE costs by 20-25%, generating $5 million in annual savings.
  - Successfully delivered 5 RPA projects ahead of schedule by leveraging reusable code and coordinating early access to test data, exceeding client expectations and securing a robust pipeline of future projects.
  - Led meetings and analysis sessions with product owners to assess business processes, identifying 10 RPA opportunities that delivered substantial cost savings and reduced FTE workload.

ACADEMIC PROJECTS

Automated Stock Price Prediction System through Data Pipeline on AWS (February 2024 – May 2024)

- Engineered an AWS Lambda function in Python to automate daily stock data collection from Alpha Vantage, decreasing manual effort by 90% and ensuring daily availability of accurate data for analysis.
- Streamlined data processing with AWS Glue and optimized stock price prediction using Amazon SageMaker and Lasso regression, achieving 70-80% prediction accuracy with cleaner data, supporting better risk management and strategic planning.

Optimizing Restaurant Location Strategy through SQL and Yelp data (August 2023 – December 2023)

- Migrated 200,000+ Yelp restaurant data entries from Kaggle to MySQL using Pandas and a chunk-wise approach, reducing load time by 35% to accelerate data analysis and support faster decision-making.
- Transformed and analyzed customer data using SQL to conduct market trend analysis, resulting in more consistent data and a 40% improvement in insight accuracy, providing more reliable and actionable insights for data-driven location strategy decisions.

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals, Google Data Analytics, MTA: Introduction to Programming Using Python - Certified 2019, Excel Skills for Data Analytics and Visualization Specialization

EDUCATION

University of Illinois Urbana Champaign   **Urbana-Champaign, IL**
MS in Business Analytics *(Concentration in Information Technology and Control)*   May 2024
Manav Rachna International Institute of Research & Studies   **Haryana, India**
B.Tech. Computer Science Engineering *(Specialization in Business Analytics and Optimization)*   May 2020