ALEKHYA KOTHA

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PROFESSIONAL SUMMARY

Results-driven and detail-oriented Data Analyst with a Master's in Computer Information Systems and 1 year of experience in data analysis, ETL, and business intelligence. Proficient in Python, SQL, and data visualization tools, with a proven ability to deliver actionable insights and enhance reporting tools in fast-paced environments. Seeking to leverage technical expertise and analytical skills to support corporate access productivity and client engagement at a global level.

SKILLS

Data Science: Python (Pandas, NumPy, Beautiful Soup), SQL (Oracle, MySQL, SQL Server), R.
Data Engineering & ETL: Data Extraction, Transformation & Loading (ETL), SQL Query Optimization, Data Cleaning & Preprocessing.
Data Visualization: Tableau, Power BI (DAX), Google Looker Studio, Excel (VLOOKUP, Pivot Tables, Conditional Formatting).
Business Analysis: Requirements Gathering, Process Documentation, Agile Methodologies, Test Planning, Customer Engagement.
Tools: Salesforce, Jira, Unity, Git, Eclipse, VS Code, Jupyter, Microsoft Power Point.
Soft Skills: Cross-functional collaboration, Problem-Solving, Strategic Thinking, Adaptability, Communication.
Cloud Platforms: AWS

EXPERIENCE

Volunteer Graduate Student Intern   **September 2024 – December 2024**
University of Houston – Clear Lake, Houston, Texas, USA

- Refined and structured 10 years of financial data across multiple datasets **(25,000+ rows)** using SQL and Excel, ensuring data accuracy and consistency for in-depth analysis.
- Designed and developed a Power BI dashboard featuring key financial reports on assets, revenue, and expenses, enabling institutional benchmarking against national peers.
- Incorporated key performance indicators (KPIs) such as **revenue growth, expense ratios, and asset utilization** to provide actionable insights, supporting strategic decision-making and resource allocation for stakeholders.

Application Development Associate   **August 2021 – November 2022**
Accenture Solutions Private Limited, Bengaluru, India

- Managed Data extraction, Transformation and analysis to support business intelligence and application development.
- Developed **ETL pipelines** using SQL and Python to streamline data workflows and improve business reporting accuracy.
- Utilized Python for data manipulation, analysis and automation, improving data workflows and generating actionable insights.
- Developed interactive dashboards and visualizations to present key metrics, facilitating data-driven decision-making for stakeholders.
- Collaborated with cross-functional teams to ensure **data quality and strategic reporting** aligned with business objectives.

PERSONAL/ACADEMIC PROJECTS

"Shopee Market Analysis Dashboard" | SQL, Python, Power BI   **January 2025**

- Integrated and transformed 4 datasets (Customer Details, Product Details, Review Data and Engagement Data) using **SQL**, ensuring data accuracy and consistency to enable meaningful analysis.
- Conducted **Sentiment Analysis** using Python to identify product quality improvement opportunities and customer preferences which helps to improve business strategies.
- Designed and developed a Power BI dashboard with advanced **DAX** calculations, delivering actionable insights that identified key areas for business improvement.

"County – Level Analysis of Covid-19 Vaccination Rate in United States" | Machine Learning   **April 2024**

- Performed comprehensive data cleaning and exploratory data analysis (EDA) on COVID-19 vaccination data across 3,142 U.S. counties, including univariate, bivariate, and multivariate analysis to identify key influencing factors.
- Utilized data visualization and correlation analysis to uncover trends, followed by ARIMA time series modeling to predict future vaccination rates, aiding in data-driven public health strategies.

EDUCATION

Master's Degree in Computer Information Systems   **December 2024**
University of Houston – Clear Lake, Houston, Texas, USA

Relevant Coursework: Datawarehouse and Business Intelligence, Strategic Information Systems, Visualization in Data Science.