KARTHEEK KUMAR SARMA MOKSHAGUNDAM

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PROFESSIONAL SUMMARY

Data Analyst Professional with 3 years of experience designing end-to-end BI solutions, scalable ETL pipelines, and advanced forecasting models across financial and operational domains. Skilled in Power BI, Tableau, SQL, Python, and Snowflake to enable self-service analytics, KPI tracking, and real-time decision-making. Proficient in cloud data platforms (Azure, Databricks, ADF, AWS, GCP) and automation frameworks for enterprise reporting. Adept at translating business requirements into data-driven insights, optimizing investments, and enhancing risk management strategies in Agile environments.

TECHNICAL SKILLS

Data Analysis & Visualization: Power BI, Tableau, Looker, Alteryx, Excel (VBA, Pivot Tables, Macros), DAX, Python (Pandas, NumPy, Matplotlib, Seaborn, Plotly).
Databases & Data Platforms:SQL (SSMS, Oracle, MySQL, PostgreSQL), Snowflake, Azure Synapse Analytics, Google BigQuery, AWS Redshift, Databricks.
Data Engineering & Automation:ETL/ELT Pipelines, Power Query, dbt, Apache Airflow, Azure Data Factory, API Integration, PySpark.
Business & Financial Analytics:KPI Tracking, Budgeting & Forecasting, NPV/IRR Modeling, ROI Estimation, Scenario & Cost-Benefit Analysis.
Cloud & Infrastructure: Microsoft Azure, AWS (S3, Lambda, Glue, Athena), Google Cloud Platform (BigQuery, Data Studio).
Methodologies & Frameworks: Agile (Scrum, Kanban), SDLC, BPMN, Gap Analysis, Requirements Elicitation (User Stories, Use Cases).
Risk & Compliance: Risk Assessment, Credit Analysis, GAAP Standards, Audit Support, Regulatory & Financial Reporting.
Collaboration & Tools: Jira, Confluence, GitHub, ServiceNow, SharePoint, MS Office Suite
Operating Systems: Windows, Linux, macOS.

PROFESSIONAL EXPERIENCE

Data Analyst   **Jul 2021 - Jun 2024**
Tata Consultancy Services | Hyderabad, India

- Developed interactive dashboards in Power BI and Tableau for finance and operations, reducing manual reporting by 40% and accelerating executive decision-making with real-time KPIs.
- Designed SQL- and Alteryx-based ETL workflows integrating ERP, CRM, and financial systems, improving reporting accuracy by 25% and cutting preparation time by 30%.
- Automated recurring data pipelines (SQL, Power Query, Excel VBA) saving 15+ hours weekly and ensuring compliance-ready reporting.
- Built forecasting and scenario models (Python, Excel) to guide financial planning, driving allocation of $5M in funding across strategic initiatives.
- Conducted ROI and cost-benefit analyses by merging internal metrics with market datasets, boosting profitability projections by 20% for new product launches.
- Performed SQL-driven operational analytics to identify bottlenecks and risk triggers, leading to 18% improvement in SLA adherence.
- Delivered self-service BI dashboards with advanced DAX and role-based access, improving adoption by 35% among business users.
- Partnered with product owners and stakeholders in Agile sprints (Jira, Confluence), reducing delivery cycles by 20%

PROJECTS

Retail Sales Analytics

- Designed ETL pipelines using SQL, Power Query, and Azure Data Factory to integrate CRM and ERP data into Snowflake, enabling automated daily refreshes in Power BI Service.
- Engineered time-series features in Python (Pandas, NumPy) and trained Prophet/ARIMA models with cross-validation, improving forecast accuracy by 22% (MAPE).
- Published Power BI and Tableau dashboards with DAX measures, cohort segmentation, and reorder alerts, reducing inventory stockouts by 12%.

Financial Risk & Credit Analysis

- Consolidated bank transactions, credit bureau, and repayment datasets using SQL pipelines in Snowflake/ADF, creating borrower-level features with Python for modeling.
- Trained and tuned Logistic Regression and Random Forest models in scikit-learn with SMOTE and grid search, achieving 0.84 AUC and 15% lift in high-risk detection.
- Delivered Power BI dashboards with default probability tracking, portfolio exposure views, and early-warning flags, reducing manual reviews by 20%.

EDUCATION

Masters in Business Analytics   **Apr 2024 - Aug 2025**
Sacred Heart University |Fairfield, CT
Bachelor of Technology in Civil Engineering   **Aug 2018 - Jul 2021**
Jawaharlal Nehru Technological University |Anantapur, India

CERTIFICATIONS

- Google Data Analytics Professional Certificate - **Coursera**
- IBM Data Analyst Professional Certificate - **Coursera**
- Business Analytics Specialization - **Coursera**
- Microsoft Power BI Data Analyst Associate - **LinkedIn Learning**
- SQL for Data Science - **Coursera**
- Data Engineering Foundations - **LinkedIn Learning**