Sudheer Kumar Tatavalu

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Portfolio: sudheerkumartatavalu.github.io/data-analyst/

Professional Summary:

Analytical and detail-oriented Data Analyst with 4+ years of experience in transforming data into actionable insights that drive business performance. Proficient in SQL, Excel, Power BI, Python, and Tableau to extract, clean, analyze, and visualize data for strategic decision-making. Strong background in operations analytics, KPI reporting, and automating reporting workflows. Proven track record of collaborating with cross-functional teams to deliver data solutions that increase efficiency and optimize outcomes.

Technical Skills:

- **Programming Languages:** Python, R, SQL, HTML, JavaScript
- **Analytics & BI Tools**: Power BI, Tableau, Excel (Pivot Tables, VLOOKUP, Macros), Amazon QuickSight
- **Databases & Querying**: SQL (MySQL, PostgreSQL, MSSQL), AWS DynamoDB
- **Languages & Libraries**: Python (Pandas, NumPy, Matplotlib, Seaborn), R (dplyr, ggplot2)
- **ETL & Data Pipelines**: PySpark, AWS S3, CRON jobs, Flask (for automation)
- **Cloud Platforms**: AWS (S3, EC2, QuickSight, SageMaker), Microsoft Azure
- **Statistical Analysis**: A/B Testing, Hypothesis Testing, Time Series Forecasting, Regression
- **Soft Skills**: Communication, Cross-Functional Collaboration, Problem Solving

Work Experience:

Data Analyst – Last Mile Analytics

(Official Title: Quality Specialist)   August 2020 – July 2023
Amazon Development Centre (India) Pvt. Ltd, Hyderabad, India

- Enhanced operational efficiency by 25% using Python and SQL to analyze logistics data and drive optimization.
- Delivered a 25% boost in logistics efficiency by analyzing and visualizing operational data using Python and SQL.
- Designed real-time Power BI dashboards for tracking key transportation metrics.
- Automated weekly reports with Python and AWS CRON jobs, reducing manual efforts by 40%.
- Conducted performance trend analysis and presented recommendations that improved planning accuracy.
- Collaborated with operations and tech teams to enhance data-driven workflows and decision-making.
- Created anomaly detection dashboards for real-time logistics performance insights.
- Created a reusable Python script to standardize data cleaning across operational reports, reducing errors by 30%.
- Collaborated with business intelligence teams to revise KPI definitions, ensuring consistency across dashboards and reports.
- Developed a daily automated KPI email summary using Python and AWS Lambda, streamlining communication across ops teams

Associate Analyst   October 2018– October 2019

GlobalLogic Technologies Limited | Hyderabad, India

- Built dashboards using Power BI and Tableau to monitor KPIs across client accounts.
- Developed and maintained ETL pipelines to improve data accuracy and accessibility.
- Assisted in data modeling and ad hoc analysis, supporting quarterly business reviews and reports.
- Streamlined data governance and ensured consistency across multiple internal systems.
- Presented weekly data insights to cross-functional teams, enhancing business understanding of customer churn trends.

Education:

University of New Haven   West Haven, CT

M.S. in Data Science, GPA: 3.93/4.0   August 2023 – May 2025

Projects:

Power BI Health Analytics
- Evaluated U.S. hospital performance and patient outcomes (2019–2020) using publicly available datasets.
- Designed KPI-driven dashboards with DAX formulas in Power BI, supporting data-informed decisions in healthcare operations.

YouTube Data Analysis (AWS, PySpark, Amazon QuickSight)
- Developed a scalable ETL pipeline with PySpark on AWS to clean and aggregate YouTube engagement data.
- Delivered real-time performance analytics through Amazon QuickSight dashboards, enabling content optimization.

Credit Card Fraud Insights Dashboard (Tableau, Python)
- Built a dynamic Tableau dashboard to visualize fraud trends using cleaned transaction data.
- Conducted data wrangling, feature engineering, and outlier detection in Python to support fraud analytics.
- Aimed to support risk analysts in identifying suspicious patterns and reducing financial fraud exposure.

Business Performance Tracker (Flask + Power BI)
- Created a real-time KPI monitoring tool with a Flask backend and Power BI frontend.
- Automated dashboard refresh workflows with AWS services, reducing manual report generation by 70%.
- Enabled operations leadership to receive daily business insights with minimal manual effort.

Certifications:

- Google Data Analytics – Coursera (2025)
  Gained hands-on experience with SQL, data cleaning, wrangling, and building visualizations using R and Tableau.
- Introduction to Machine Learning on AWS – Coursera (2025)
  Trained and deployed models using Amazon SageMaker, explored key AWS workflows for data preparation and analysis.
- Excel for Business Analysts – LinkedIn Learning (2024)