Mouli Sirigiri

Data Analyst

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PROFESSIONAL SUMMARY

MSc Data Science graduate and Junior Data Analyst Intern at Fortray Global Services Ltd, London, with strong Python, SQL, statistical analysis, and data visualization skills. Engineered SQL queries that improved data extraction speed by 30% and automated 15+ Power BI and Excel reports, reducing manual reporting time by 40%. Targeting entry-level Data Analyst or associate Data Scientist roles.

SKILLS

- **Tools & Technologies:** Python (Pandas, NumPy, Scikit-learn, basic ML), TensorFlow, Keras, CNN, LSTM, GRU, ARMA, GANs, ResNets, Shell Scripting, R (basic), Git/GitHub, Jupyter Notebook, Power BI, Tableau, Advanced Excel (Power Query), Microsoft 365 (Outlook, Teams, SharePoint, OneDrive), JIRA, CATIA, Cloud Basics (AWS/GCP)
- **Databases & Big Data:** MSSQL, PostgreSQL, MySQL, SQLite, NoSQL (concepts), Hadoop (concepts), Spark (intro), Talend, Informatica
- **Processes:** Exploratory Data Analysis (EDA), Data Cleaning & Normalization, KPI & Trend Tracking, Statistical Analysis, Hypothesis Testing, Regression Analysis, Time Series Analysis, Statistical Forecasting, Predictive Modeling, Risk & Compliance Reporting, Workforce Analytics, Agile & Process Optimization
- **Soft Skills:** Stakeholder Engagement, Communication, Critical Thinking, Problem Solving, Time Management, Attention to Detail, Teamwork in Agile Environments

TRAINING & CERTIFICATIONS

- Salesforce Tableau Certificate for Data Analyst (Nov 2025)
- Microsoft Certified: Power BI Data Analyst Associate (Dec 2025)
- Business Analytics with Excel (Training)
- Programming Basics and Data Analytics with Python (Training)
- Data Analytics with R (Training)
- SQL (Training)

EXPERIENCE

Junior Data Analyst Intern

Fortray Global Services Ltd, London, UK *Jul 2025 – Present*

- Engineered and optimized complex SQL queries, improving data extraction speed by 30% for business-critical analysis.
- Executed data profiling and cleaning, enhancing dataset accuracy by 25% for reliable reporting.
- Designed and automated 15+ reports and dashboards using Excel, Power BI, and Looker, reducing manual reporting time by 40%.
- Analyzed A/B testing results, increasing experiment insight accuracy by 20% and effectively presenting findings to stakeholders.
- Translated business requirements into technical solutions through data modeling and visualization, accelerating project delivery by 15%.
- Collaborated with data engineers to streamline ETL workflows, boosting data pipeline efficiency by 35%.

PROJECTS

Time Series Forecasting – Amazon & Johnson & Johnson | Python, Pandas, Matplotlib, ARMA, LSTM
Objective: To analyze historical sales and stock data to forecast trends for informed business and investment decisions.
Tools & Technologies: Python (Pandas, NumPy), ARMA, LSTM, Matplotlib, Seaborn
Process:

- Preprocessed historical sales and stock datasets, handling missing values and anomalies.

- Conducted time series analysis to identify seasonal trends and patterns.
- Built forecasting models and evaluated performance using RMSE and MAE metrics.

Result/Impact: Provided actionable trend forecasts, supporting strategic business and financial decision-making.

Weather Data Mining (SQL Project) | Python, SQLite, SQL
Objective: To analyze weather trends and patterns for research and data-driven insights.
Tools & Technologies: Python (Pandas), SQLite, SQL queries
Process:

- Created a synthetic weather database simulating real-world measurements (temperature, humidity, precipitation).
- Wrote complex SQL queries to extract trends, correlations, and anomalies.
- Visualized results using Python plotting libraries for better interpretation.

Result/Impact: Delivered clear insights into weather patterns, demonstrating strong SQL and data analysis skills applicable to business and research contexts.

Cluster Analysis on Land Use Patterns | Python, Pandas, Matplotlib, K-Means
Objective: To identify patterns and trends in global land use for environmental and agricultural decision-making.
Tools & Technologies: Python (Pandas, NumPy), Matplotlib, Seaborn, K-Means Clustering
Process:

- Collected and cleaned 34 years of World Bank land use data (forest and agriculture).
- Applied K-Means clustering to detect patterns and categorize regions based on land usage.
- Visualized insights with plots and charts for clear interpretation.

Result/Impact: Revealed long-term land use trends, supporting data-driven strategies for sustainable agriculture and environmental planning.

EDUCATION

MSc Data Science (Distinction) | University of Hertfordshire, Hatfield, UK | Jan 2023 – Feb 2025

BEng Aeronautical Engineering (Distinction) | Vel Tech University, Chennai, India | Jun 2018 – May 2022

REFERENCE

Reference would be provided upon request.