

SIVA SAI ALLURU

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SUMMARY

Data Analyst with a strong foundation in SQL, Power BI, Excel, and AWS cloud analytics, passionate about transforming complex datasets into meaningful insights. I am skilled in automating reporting workflows, building interactive dashboards, and leveraging predictive analytics to enhance business operations. Experienced in optimizing data pipelines and cloud-based analytics solutions using AWS Redshift, Athena, and S3. A problem solver who thrives in dynamic environments, translating raw data into strategic decisions that drive efficiency and innovation.

EDUCATION

Master of Science in Information Technology , University of Texas Arlington	August 2023 - May 2025
Bachelor of Technology in Electronics & Communication , Visvesvaraya Technological University	August 2018 - May 2022

EXPERIENCE

Data Analyst	May 2022 – August 2023
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Jio Ltd, Bengaluru, INDIA

- Designed and maintained Power BI dashboards to monitor key network KPIs, helping leadership track real-time performance metrics and improving response time for network issue resolution by **30%**.
- Streamlined weekly and monthly performance reports by automating data pipelines in Excel and Power Query, cutting down manual reporting efforts by **40%** and increasing accuracy.
- Analyzed large-scale telecom data to identify high-traffic zones and recommended site optimization strategies, leading to a **15% improvement in network coverage** in urban areas.
- Built predictive models in Excel to forecast network demand, allowing teams to allocate resources more efficiently and reducing congestion-related service disruptions by **25%**.
- Led data-driven investigations into network outages, providing insights that helped reduce downtime by **20%**, improving overall service reliability.

Data Analyst Intern	Aug 2021 – April 2022
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Jio Ltd, Bengaluru, INDIA

- Supported the analytics team in data cleaning, dashboard updating, and reporting using Power BI and Excel.
- Assisted in identifying traffic hot spots and creating basic forecasting models for network demand trends.
- Supported creation of root-cause analysis reports on service outages and outage events.
- Collaborated with cross-functional teams like product managers and network engineers to become familiar with use-case requirements and transforms them into work to analyze.

KEY SKILLS

Programming & Query Languages: Python, SQL, Power Query, Excel VBA, C/C++ (Basic), Object-Oriented Programming (OOP)

Data Analysis & BI Tools: Power BI, Tableau, Microsoft Excel, SQL (Advanced), Pandas, NumPy

Cloud & Big Data Technologies: AWS (Redshift, Athena, EC2, S3, Lambda, RDS, VPC, IAM, Auto Scaling)

Development & Automation Tools: Visual Studio Code, PyCharm, Jupyter Notebook, Git, Boto3

Soft Skills: Problem-Solving, Attention to Detail, Team Collaboration, Adaptability, Critical Thinking

PROJECTS

Instagram Fake User Behavior Analysis - Associated with The University of Texas at Arlington

- Developed machine learning models, including Logistic Regression, Random Forest, XGBoost, and Neural Networks, to detect and classify fake Instagram accounts with high precision.
- Enhanced platform security by engineering key features like engagement rates and profile completeness, achieving improved model accuracy through clustering and predictive analytics.

Cybersecurity Attack Threat Prediction - Associated with The University of Texas at Arlington

- predictive models using Random Forest Classifier, Logistic Regression, and CAT Boost to classify cyber-attack severity, focusing on critical features like anomaly scores and network traffic patterns.
- Achieved robust performance through hyperparameter tuning and feature importance analysis, enhancing organizational response strategies for cyber threats.

ACHIEVEMENTS & CERTIFICATIONS

- **Certified in Agile Project Management (PMI)**
- **AWS Cloud Computing Certification**
- **IBM Data Analyst professional certification**