



Mahalakshmi Anbalagan (PR Holder)

Microsoft Certified Data Analyst (PL300)

SQL & PL/SQL | Power BI | MS-Fabric | Azure Data Factory | Databricks | Tableau | Telco

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Professional Background

- Experienced **System and Data Analyst** with 3 years of IT Specializing in Data Visualization, Business Intelligence, and System Troubleshooting.
- Supported **Agile** development environments by driving continuous improvement initiatives and reducing unplanned work through effective ITSM Standards.
- Collaborated cross-functional by leveraging strong communication skills and promoting a culture of innovation and service excellence.
- Contributed to service delivery enhancements by proactively identifying process inefficiencies and implementing scalable low-code solutions.
- Hands-on experience with Power BI Desktop, Power Query, Power BI Service, DAX, and Azure Data Factory and AWS Glue, Fabric.
- Developed and maintained **Star** and **Snowflake Schema**-based Data Models to support analytical reporting.
- Applied **Medallion** Architecture principles (Bronze, Silver, Gold layers) to enhance data quality, transformation, and governance in a structured data pipeline.
- Developed Copy Data, Data Flow, and Lookup activities to efficiently ingest, transform, and load data across multiple sources.
- Orchestrated complex workflows by leveraging Invoke Pipeline and Stored Procedure activities for modular and reusable ETL processes.
- Experienced in Data Transformation, Trend analysis, and KPI tracking, collaborating closely with stakeholders to enhance operational efficiency and drive business performance.
- Proficient in Microsoft Fabric, Azure Data Factory (ADF), Data Flows, Data Lakehouse, and Data Warehouse, leveraging real-time intelligence and advanced tools for seamless data integration, transformation, and analysis.
- Skilled In **Power BI, DAX, and ETL Processes, Dataflows** Delivering **Actionable Insights** and Interactive **Dashboards** to Support Business Decision-Making.
- Developed interactive **Tableau dashboards** using advanced techniques such as **Data Blending, Relationships, Joins, Unions, and Hierarchies** to enhance data visualization and insights.
- **Implemented Dynamic Visualizations** with **Calculated fields, Parameters, Actions, Filters, Drill-down/up, and sets** to improve user experience and decision-making.
- Utilized **PL/SQL** for data validation, transformation, and aggregation to support business intelligence dashboards and ad-hoc analysis.
- Automated recurring data extraction and reporting tasks using **PL/SQL**, improving data processing efficiency and accuracy.
- Extensive Experience with **BSS & OSS Systems** within The Telecom Industry, Ensuring Accurate Data Reporting and Seamless System Integration.
- Delivered Comprehensive Test Support for New Releases, Updates, and Patches, Ensuring Seamless System Integration and Full Functionality.
- Skilled In **Application Monitoring** and Incident **Management**, Resolving Issues Within Sla Metrics and Identifying Root Causes to Ensure Maximum Uptime.
- Adept In **UAT** (User Acceptance Testing) and Manual Testing, Ensuring System Reliability and Data Accuracy.

Areas of Expertise

IT Skills:

- **Data Visualization & BI Tools:** Power BI, Tableau.
- **ETL & Data Engineering:** Azure Data Factory, AWS Glue, Microsoft Fabric, Databricks
- **Data Modelling & Architecture:** Star & Snowflake Schema, Medallion Architecture (Bronze, Silver, Gold)
- **Cloud Technologies:** Azure (ADF, Databricks, Data Lakehouse), AWS (S3, Glue, Redshift)
- **Language:** Python & M-Query, PL/SQL
- **Testing & QA:** UAT, Manual Testing, Test Support for System Releases & Updates.
- **Linux** – VIM, Shell Script, Cron jobs.

Education:

- Master of Philosophy (Computer Science) - 85 % (2014)
- Master of Computer Applications (MCA) - 70 % (2011)
- Bachelor of Computer science (B.SC) – 63 % (2008)

Professional Summary:

Company Name	Designation	Duration
KSR DataVizon Pvt Ltd	Full Stack Power BI Developer	Sep 2024- Till Date
Accenture, Australia	System and Data Analyst	2 years 11 months
Prince Sri Venkateshwara College, Chennai, India	Assistant Professor	1 Year
Loyola college, Tiruvannamalai, India	Assistant Professor	3 years 3 months

Professional Experience:

May 2021 – Mar 2024

Accenture, Australia (Contractor) – Optus Project

Role: System and Data Analyst

- Provided End-To-End Support for **Operations Support Systems (OSS)** and **Business Support Systems (BSS)**, Ensuring **Application Stability and Performance**.
- Analysed **Incidents, Service Requests, Problem Records, and Change Requests**, Driving Automation and Process Improvements for Better Efficiency and Cost-Effectiveness.
- Collaborated with Azure data engineers and operation team to implement the ETL process using Azure Data Factory wrote and optimized SQL queries to perform data extraction to fit the analytical requirements.
- Conducted **Daily Monitoring and Health Checks** to Proactively Identify and Mitigate Potential System Issues, Minimizing Downtime and Ensuring Optimal Application Performance.
- Led **Application Migration** Projects from On-Premises to Cloud, Leveraging AWS Services (S3, Glue, Redshift) To Enhance Scalability and Operational Efficiency.
- **Developed and executed source-to-target mapping** and transformation logic using tools like Azure Data Factory, ensuring data integrity and consistency.
- **Performed data profiling and quality checks** to identify gaps, duplicates, and inconsistencies, improving overall data accuracy.
- **Created and maintained detailed documentation**, including data dictionaries, mapping specifications, and migration runbooks for audit and support.
- **Collaborated with cross-functional teams** (business analysts, developers, QA) to ensure successful data reconciliation, UAT support, and seamless cutover.
- Supported a **Reporting Platform Processing Millions of Rows Daily**, Integrating Azure Data Factory and Power BI for Seamless Analysis and Visualization.

- Managed **Patching, Deployments, and System Updates**, Ensuring Applications Remained Secure, Up-To-Date, and fully Operational.
- Performed Rigorous UAT To Validate New Features, Fixes, and System Changes, Ensuring Alignment with Business Requirements Before Deployment.
- Monitored, Validated, and Provided Technical Troubleshooting for Post-Production Changes, Ensuring Smooth System Functionality and Minimal Disruptions.

Sep 2024 – Present

KSR Datavizon Pvt Ltd

Role: Full Stack Power BI Developer

- Loaded and Processed Data from Multiple Sources (**SQL Server, one lake, Excel, MySQL**) Into Power BI, Ensuring Data Accuracy and Reliability.
- Involved in the data cleaning process like finding duplicates, Handling Null, finding anomalies & Outliers, Normalization at every stage.
- Designed Interactive Dashboards with **Custom Visuals, Bookmarks/Page Navigation, and Advanced DAX** Calculations for Enhanced Data Insights.
- Performed ETL Transformations Using **Power Query and Azure Data Factory**, Ensuring Smooth Data Processing in Lakehouse Environments.
- Expert In DAX Functions, Including **SUM, COUNT, MIN, MAX, Time Intelligence, and Filter Functions**, Enhancing Analytical Capabilities in Power BI.
- Strong Knowledge of **Star and Snowflake Schema**, Including **Fact/Dimension** Table Identification and Advanced Data Transformations.
- Implemented **Row-Level Security (RLS)**, Report-Level Filters, and Power BI Service Access Controls to Ensure Secure Data Sharing.
- **Developed Automated Workflows** for **Data Ingestion and Transformation, Optimizing ETL Pipelines** for Improved Data Processing Efficiency.
- Migrated legacy **on-premises MySQL** to **Azure SQL Database** using **Azure Data Factory** pipelines with **Self-hosted Integration Runtime (SHIR)**.
- Developed **Databricks** notebooks (PySpark) to transform and cleanse migrated data for downstream analytics.
- Leveraged **Delta Lake** for managing large-scale datasets with ACID transactions, version control, and efficient upserts post-migration.
- Applied **data validation** and **reconciliation** logic to compare source vs. target post-migration to ensure data accuracy.
- Orchestrated **incremental data migration** using **watermark** columns and change tracking to avoid full reloads.
- Scheduled and **parameterized** pipelines using ADF triggers, enabling repeatable and scalable migration jobs.
- Utilized Power BI and Azure Monitor to track migration progress and provide status dashboards for stakeholders.
- Published Power BI Reports to Power BI Service, Configured On-Premises Data Gateway, and Ensured Real-Time Data Refresh Scheduling.