Sathish Mekarthi

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Accomplished data professional with a master's degree and 5+ years of hands-on experience in data management and analysis for enterprise software services. Eager to leverage expertise to contribute to innovative projects.

EDUCATION

Master of information systems, Data Analytics, DePaul University - GPA: 3.6/4.0 ***Jan 2023- Dec 2024***

Bachelor of Technology, Electrical Engineering, Avanthi College of Engineering, India - **GPA: 7.0/10**

SKILLS

Databases: SQL, Excel, Microsoft 365, MySQL, MongoDB, PLSQL, Cosmos DB, MS SQL Server.
Programming Language: Python, R
Visualization Tools: Tableau, Power BI, Sigma Computing, Looker, Google sheets,
Cloud Technologies: Public Cloud Solutions, Amazon web Services (AWS), Docker, Kubernetes, Azure, Google Cloud Platform.
Machine Learning: Keras, TensorFlow, Pandas, NumPy, Seaborn, scikit-learn, PyTorch, LLM, Langchain, Vector DB, RAG.
Certifications: SQL For Data analyst, AWS, Azure, PL300, Power BI, Tableau

WORK EXPERIENCE

Data Analyst Intern | InfoSoft Solutions LLC | Chicago, IL (Remote) **April 2025 – Present**

- I am currently working on analyzing large datasets to extract insights and support data-driven decision-making.
- Building and maintaining interactive dashboards in Tableau, and Excel to visualize real-time performance metrics.
- Writing and optimizing SQL queries to extract, transform, and analyze data from relational databases.
- Performing exploratory data analysis (EDA) to identify anomalies, trends, and data quality issues.
- Developing automated data pipelines to streamline reporting workflows and reduce manual effort.
- Actively collaborating with cross-functional teams to define analytical requirements and deliver meaningful insights.

Major Project – Customer Retention & Churn Analysis Platform

- Designed and implemented a customer churn prediction model integrating SQL, Python, and Tableau.
- Processed 5M+ customer records from CRM and transactional systems to identify churn risk indicators.
- Applied EDA techniques to uncover behavioral patterns and anomalies influencing customer retention.
- Built predictive dashboards in Tableau to visualize churn probability by customer segments, product lines, and geographies.
- Automated ETL pipelines with SQL & Python scripts to refresh churn metrics daily, reducing manual reporting by 80%.
- Conducted A/B testing to measure effectiveness of retention campaigns, enabling data-driven interventions.
- Collaborated with marketing and customer success teams to define actionable KPIs.
- Reduced customer churn by 18% in a 3-month pilot program, saving ~$400K in recurring revenue.
- Delivered insights to senior executives, enabling proactive retention strategies.
- Improved data pipeline reliability with error handling and monitoring scripts.
- Provided ad-hoc analysis to support marketing campaigns targeted at high-risk customer groups.
- Implemented role-based access for dashboards, ensuring data security.
- Migrated datasets to cloud-based Azure Blob Storage for scalability.
- Documented end-to-end pipeline, creating knowledge base for future interns.
- Project recognized internally as a best practice case for customer analytics.

Data Analyst | TCS (Tata Consultancy Services), Hyderabad **Jan 2022 – Dec 2022**

- Developed and implemented over 100 KPIs and 30+ unified tables across various business modules using Power BI and SQL, providing comprehensive insights for decision-makers.
- Integrated large datasets and performed OData API validations, improving data quality by 30% through effective data loading and processing.
- Created SSAS models and SSIS packages for analyzing project costs and timelines, supporting decision-making with detailed analytics.
- Optimized data extraction processes using SQL/NoSQL queries from MySQL, PostgreSQL, and SQL Server, reducing data processing time by 50%.
- Designed and implemented a data warehouse solution using Snowflake and Azure Data Factory, managing over 150 tables and 30+ ETL pipelines for seamless data integration.
- Led the creation of work order procurement analytics in Power BI, resulting in 27% revenue growth and 15% cost reduction.
- Implemented Apache Kafka, Apache Spark, and Apache Hive, achieving a 30% reduction in data processing time and improving analytics accuracy.
- Utilized complex SQL queries and VLOOKUP to clean and organize datasets, enhancing efficiency in data processing and analytics.

Major Project – Enterprise Data Lake for Telecom Client

- Led data engineering and analytics for a $10M digital transformation project in the telecom domain.
- Built a centralized data lake using Snowflake + Azure Data Factory, consolidating 10+ source systems.
- Designed 30+ ETL pipelines to ingest data from ERP, CRM, and billing systems with real-time streaming via Kafka.
- Processed 2TB+ of daily data to provide unified insights across finance, customer service, and operations.
- Developed Power BI dashboards tracking churn rate, ARPU, network downtime, and service quality KPIs.

- Implemented SSIS workflows to automate financial reconciliation, reducing manual effort by 60%.
- Created role-based dashboards for C-level executives, middle management, and operational teams.
- Integrated predictive models with Spark MLlib to forecast customer churn and network outages.
- Reduced reporting latency from 48 hours to under 2 hours through real-time streaming.
- Partnered with 4 cross-functional teams (Finance, Operations, IT, Customer Care) to align requirements.
- Ensured compliance with GDPR & HIPAA through secure data handling and masking strategies.
- Built custom APIs to serve analytics results into business applications.
- Documented metadata and lineage using Microsoft Purview, enhancing governance.
- The solution increased revenue by $3.5M annually through improved retention and operational efficiency.
- Recognized with TCS Star Award for contribution to enterprise-level analytics.

Data Analyst | Aurobindo Pharma, Hyderabad **Oct 2019 – Dec 2021**

- Developed a Tableau dashboard to deliver real-time production and packaging performance metrics, enabling data-driven decision-making for manufacturing leaders.
- Integrated data from MES (Manufacturing Execution Systems) and LIMS (Laboratory Information Management Systems) using ETL processes (SQL/Python).
- Designed KPIs to track production yield, OEE (Overall Equipment Effectiveness), rejection rates, and line efficiency across multiple packing lines.
- Automated daily, weekly, and monthly reporting workflows, reducing manual effort by 60%.
- Delivered actionable insights to senior management, improving production planning and cost efficiency.
- Collaborated with cross-functional teams (Quality, Production, Supply Chain) in Agile sprints to ensure analytics aligned with operational goals.

Major Project – OCB (Oral Contraceptive & Blister) Packing Analytics Platform

- Led data analysis for OCB packing department, focusing on productivity, material usage, and compliance reporting.
- Built a Tableau dashboard to monitor real-time performance of 12+ blister packing machines, tracking uptime, downtime, and reject rates.
- Developed SQL-based ETL pipelines to extract and process machine log data, SAP ERP transactions, and QA test results.
- Processed over 500K batch records to identify bottlenecks in production and material wastage trends.
- Created KPIs for batch yield, blister rejection %, equipment downtime, and operator efficiency, improving transparency.
- Implemented predictive analytics to forecast machine breakdowns using historical downtime data, reducing unplanned stoppages by 20%.
- Automated compliance reporting aligned with 21 CFR Part 11 and GxP standards, ensuring audit readiness.
- Built inventory monitoring dashboards to track packaging material usage (PVC, foil, cartons), reducing excess consumption by 12%.
- Partnered with QA to integrate data validation for deviation reports and CAPA tracking.
- Designed dashboards to compare planned vs. actual production, reducing variance by 15%.
- Delivered insights that improved OEE (Overall Equipment Effectiveness) by 10% across packing lines.
- Streamlined daily shift reports, cutting reporting time from 4 hours to 30 minutes.
- Conducted training for supervisors and managers on data-driven decision-making using dashboards.
- Project outcomes included better capacity utilization, cost savings of $1.2M annually, and reduced compliance risk.
- Recognized by plant leadership as a model project for digital transformation in packaging operations.

PROJECTS

Data Warehouse Implementation & Analysis (GCP, DAGs, Cloud SQL, ETL)

Developed Leveraged Google Cloud Composer to architect and design over three scalable environments, establishing a Virtual Private Cloud network for Cloud SQL, Implemented ETL pipeline processes and DAGs, optimizing workflow efficiency and ensuring secure and scalable data processing.

Financial Trends Dashboard in Food sector (Snowflake, Power BI, ETL)

Created a comprehensive dashboard to analyze financial revenue trends in food sector using BI and snowflake, extracted large datasets from various sectors for dashboard including revenue growth, profit margins, sales trends, market performance resulting in 20% improvement in strategic business.

Sales and Revenue Analysis (Power BI, SQL, Data Visualization)

Developed interactive **Power BI dashboards** to analyze sales performance across multiple regions. **Leveraged SQL** to extract, clean, and transform data, performing **trend analysis** on revenue, profit margins, and customer segmentation. **Implemented** dynamic KPIs, time-series forecasting, and drill-down insights, optimizing business decision-making.