

Sunil Kurumala

Location: IL | Phone: 651-300-7869 | Email kurumalasunil@gmail.com [LinkedIn](#) [Portfolio](#)



PROFESSIONAL SUMMARY

Senior Data Analyst with **6+ years of experience** driving data analytics, reporting, and automation across large-scale supply chain and operational environments. Expertise in **SQL, Python, Power BI, Snowflake, and cloud data platforms** with a strong background in data modeling, ETL pipeline development, KPI reporting, and analytics.

Proven ability to translate complex datasets into **actionable insights for leadership**, support business continuity during high-impact incidents, and improve operational efficiency through automation and predictive analytics. Strong cross-functional collaborator experienced in working with engineering, IT, procurement, operations, and executive stakeholders in fast-paced environments.

PROFESSIONAL EXPERIENCE

Senior Data Analyst - Department of Healthcare and Family Services Feb 2024 – Present | USA

- Perform end-to-end **AI-driven healthcare data analytics** using **Python, SQL, Pandas, NumPy**, and advanced statistical techniques.
- Design, develop, and maintain **interactive dashboards** using **Power BI, Tableau**, and **Excel** to track healthcare utilization, claims trends, eligibility metrics, and program performance.
- Apply **machine learning algorithms** (regression, classification, clustering, time-series forecasting) to predict healthcare costs, patient risk patterns, and service demand.
- Build and optimize **ETL pipelines** using **SQL, Python, and cloud data services (AWS, Azure)** to ingest structured and semi-structured healthcare data.
- Ensure **data governance, HIPAA compliance, data security, and quality assurance** across healthcare.
- Collaborate with cross-functional teams to translate business requirements into **AI-powered analytics**.
- Perform **data cleansing, data validation, anomaly detection**, and automated reporting to improve data.
- Support **AI model readiness** by preparing high-quality datasets for predictive analytics and decision intelligence.
- Conduct **ad-hoc analysis, root cause analysis**, and trend analysis to support policy and operational decisions.
- Implement **automation and AI workflows** to reduce manual reporting and improve turnaround time.

Senior Data Analyst - Western Digital

May 2021 – July 2022 | India

- Analyzed **large-scale enterprise and manufacturing datasets** using **Python, SQL, and BI tools** to drive operational and strategic decisions.
- Developed **AI-enhanced dashboards and KPI reports** using **Power BI, Tableau**, improving business visibility and forecasting accuracy.
- Built **predictive and descriptive analytics models** to identify trends, bottlenecks, and performance.
- Automated recurring data processes using **Python scripting**, significantly reducing manual effort and errors.
- Designed and optimized **complex SQL queries, views, and stored procedures** for high-performance.
- Integrated data from **big data platforms and cloud systems (AWS, Azure)** for advanced analytics use cases.
- Partnered with engineering, operations, and leadership teams to deliver **data-driven insights**.
- Supported **AI initiatives** by preparing clean, structured datasets and validating model outputs.
- Maintained **data documentation, metadata, and analytics standards** across reporting systems.

• Data Analyst - Western Digital Jun 2018 – Apr 2021 | India

- Collected, processed, and analyzed **high-volume business data** using **SQL, Excel, and BI tools**.

- Created **dynamic dashboards, reports, and KPI scorecards** for senior leadership.

- Performed **statistical analysis, trend analysis, and variance analysis** to support business decisions.

- Supported **AI and advanced analytics initiatives** by preparing reliable, high-quality datasets.

- Automated manual reporting tasks using **Excel macros and SQL-based workflows**.

- Collaborated with stakeholders to gather requirements and translate them into analytics solutions.

- Conducted **data quality checks, reconciliation, and validation** to ensure reporting accuracy.

- Assisted in the migration of reports to **modern BI and analytics platforms**.

CORE SKILLS

1. Data Analytics & Reporting

Data Cleaning, Data Validation, Data Modeling, Root Cause Analysis (RCA), Trend & Variance Analysis, KPI Development, Executive & Ad-hoc Reporting

2. Business Intelligence & Visualization

Power BI (DAX, Data Modeling, Performance Optimization), Tableau (LOD Expressions), Looker Studio, Excel (Power Query, Power Pivot, Advanced Formulas)

3. Programming & Querying

SQL (MySQL, PostgreSQL, T-SQL, CTEs, Window Functions), Python (Pandas, NumPy, Prophet, Matplotlib), Bash Scripting, R (Basic)

4. Data Engineering & Cloud Platforms

Snowflake, Databricks, Azure Synapse, BigQuery, AWS (S3, RDS, Lambda), Airflow, Automated ETL &

5. Advanced Analytics, AI & Enterprise Tools

Time Series Forecasting, Anomaly Detection, Predictive Analytics, NLP & Sentiment Analysis, Scenario Modeling, SAP (MM/PP), Oracle, NetSuite, Jira, Confluence, Git, Agile & Scrum

TECHNICAL SKILLS

- **Languages:** SQL, Python, R
- **BI Tools:** Power BI, Tableau, Looker
- **Databases:** Snowflake, SQL Server, MySQL, PostgreSQL, Redshift
- **Cloud Platforms:** AWS, Azure
- **Analytics:** Forecasting, Predictive Modeling, NLP
- **Tools:** Jira, Confluence, Git, SAP, Oracle, NetSuite

EDUCATION

Master of Science (M.S.) – Computer Science

University of Illinois, Springfield, IL | Aug 2022 – Dec 2023

Bachelor of Engineering (B.E.) – Information Technology

Vemana Institute of Technology, Bengaluru, India | Aug 2014 – Jun 2018