

# Sanjay Varghese Kurian

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Business Intelligence Analyst with 2+ years of experience delivering enterprise-grade reporting and analytics solutions across *AWS and Azure*. Skilled in *Power BI, Tableau, SQL, Python, PySpark*, and *dbt* with a strong foundation in *ETL/ELT, data modeling, and data warehouse design*. Proven success in building scalable data pipelines, integrating multi-source data, and enabling real-time insights for finance, retail, and healthcare clients. Certified in *SnowPro Core* and *Microsoft Power BI*, with *dual* postgraduate diplomas in *Big Data Analytics* and *Artificial Intelligence*. Known for translating business needs into impactful BI solutions through clean, trusted, and analytics-ready datasets.

## PROFESSIONAL EXPERIENCE

### FREELANCE DEVELOPER

*Smart Spend Studio*

Oct 2024 – Apr 2025

- Built a Flask-based expense management tool that reduced manual Excel workflows by 80%, streamlining data entry with editable forms and autocomplete inputs
- Improved data consistency by 90% through -driven autocomplete and structured category mapping using openpyxl and reference Excel tables
- Automated transaction categorization with RapidFuzz, achieving 85%+ accuracy by normalizing Plaid API's nested JSON and applying fuzzy matching techniques
- Cut reporting prep time by 70% by automating dynamic Excel updates with pandas and openpyxl, formatted for financial analysis
- Enhanced financial visibility with interactive Power BI dashboards, increasing stakeholder engagement by 60%, and ensured offline access via Plotly chart fallbacks
- Modeled financial transaction data using dbt, enabling modular SQL transformations and improving pipeline maintainability by 40%

### BUSINESS INTELLIGENCE ANALYST

*Tendercuts Pvt. Ltd*

Aug 2021 – Dec 2022

- Constructed, implemented, and maintained enterprise-grade BI dashboards in Tableau and Power BI, consolidating multi-source sales, inventory, and logistics data into a single source of truth
- Analyzed, and interpreted complex datasets using SQL & Python, identifying operational discrepancies that improved efficiency by 10% and boosted revenue from Value-Added Products by 15%
- Designed and optimized ETL workflows and database structures to ensure data integrity, accuracy, and accessibility across teams
- Partnered with cross-functional stakeholders to define KPIs, success metrics, and BI requirements, translating business needs into actionable data solutions
- Developed interactive dashboards and automated reports that reduced manual reporting time by 40%, enabling faster decision-making
- Utilized query optimization and performance monitoring techniques to improve data retrieval times and reporting efficiency
- Provided training and documentation to operational teams, fostering data literacy and effective use of BI tools across the organization

### COMPUTER AIDED ENGINEERING ANALYST (CAE)

*Udvavisk Technologies Pvt. Ltd*

Feb 2021 – Aug 2021

- Designed and conducted smoke and regression analysis to study smoke flow and device effective

evacuation measures, improving evacuation time by 30%

- Designed and analyzed fluid flow in various geometries to enhance the structural integrity of machines and tanks, resulting in a 20% increase in efficiency and reducing material failure by 15%
- Developed innovative solutions for optimizing fluid dynamics, leading to a 25% improvement in performance and a 10% increase in the reliability of industrial equipment

## EDUCATION

### POST-GRADUATE IN BIG DATA ANALYTICS

*Georgian College*

Nov 2024

### POST-GRADUATE IN AI ARCHITECTURE, DESIGN & IMPLEMENTATION

*Georgian College*

Nov 2023

### B.E. IN MECHANICAL ENGINEERING

*Anna University (College of Engineering)*

Oct 2020

## PROJECTS

### COMPUTER VISION ENGINEER & DEVELOPER

*AAMS - Audience Attention Measurement System*

Apr 2023 – Aug 2023

- Engineered a modular video analytics pipeline using Python and OpenCV, enabling frame-level data extraction for audience behavior analysis with 95% frame capture reliability
- Automated real-time video ingestion and frame segmentation via OpenCV's VideoCapture, improving data throughput by 80% for downstream tasks like gaze tracking and facial recognition
- Implemented dynamic directory structuring and OS-level automation to organize image datasets, reducing manual setup time by 70%
- Integrated robust exception handling for file I/O and path validation, decreasing runtime errors by 60% and ensuring consistent execution across environments
- Designed the system as a scalable foundation for future modules including emotion detection, attention scoring, and engagement heatmaps, supporting 100% extensibility for research and commercial applications

### DATA ANALYST

*PedalMetrics*

Aug 2023

- Built a scalable data pipeline using Python, SQL, and Kaggle API to extract, transform, and analyze multi-store retail data, improving reporting efficiency by 75% across sales, inventory, and customer behavior
- Conducted customer segmentation using RFM analysis, identifying high-value segments ("big spenders", "repeat buyers") and boosting targeted marketing potential by 60%
- Delivered actionable insights via SQL-driven performance dashboards, ranking staff by order volume, uncovering product affinity trends, and optimizing inventory visibility across locations with 90% accuracy

## CERTIFICATIONS

- SnowPro Core COF-C02 Certified
- Microsoft Certified: Power BI Data Analyst Associate
- Data Visualization with Tableau Specialization - University of California, Davis
- Excel Skills for Data Analytics and Visualization - Macquarie University
- AWS Academy Cloud Foundations
- AWS Academy Machine Learning for Natural Language