

# Sanjay Varghese Kurian

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<b>TOOLS</b>	Tableau, Power BI, MS Excel, MS Office, GIT, AutoCAD 2D & 3D, MATLAB, CATIA
<b>SKILLS</b>	Data Visualization, SQL, DAX, Python, Machine Learning, Java, C, version control, HTML, CSS, Agile

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## EDUCATION

<b>PGDIP. IN BIG DATA ANALYTICS</b>	<b>2024 (1yr.)</b>
<i>Georgian College</i>	<i>Barrie, ON</i>
<ul style="list-style-type: none"><li>Dean's List award winner for academic excellence / <i>Cumulative GPA: 87.52%</i></li><li><b>Coursework:</b> <i>Linux Administration (system management, shell scripting, network configurations), Python Programming (data structures, algorithms, application development), C# Development (OOP, software design), Mathematics for Data Analytics, and Business Process Analysis (process mapping, optimisation), MS Excel (macro, vlookup, index match, pivot tables).</i></li></ul>	
<b>PGDIP. IN ARTIFICIAL INTELLIGENCE ARCHITECTURE, DESIGN, &amp; IMPLEMENTATION</b>	<b>2023 (1yr.)</b>
<i>Georgian College</i>	<i>Barrie, ON</i>
<ul style="list-style-type: none"><li>Dean's List award winner for academic excellence / <i>Cumulative GPA: 88.31%</i></li><li><b>Coursework:</b> <i>ML Frameworks (TensorFlow, PyTorch for model building, training, deployment), Computer Vision (text analysis, image recognition, predictive modelling, object detection), and Advanced Mathematics for Data Science (linear algebra, calculus, probability).</i></li></ul>	
<b>B.E. IN MECHANICAL ENGINEERING</b>	<b>2016 – 2020</b>
<i>Anna University (College Of Engineering)</i>	<i>Chennai, TN</i>
<ul style="list-style-type: none"><li>Cumulative GPA: 92%</li><li><b>Coursework:</b> <i>Advanced Heat and Thermodynamics, Machine Design, Computational Fluid Dynamics, and Finite Element Analysis. Proficient in AutoCAD, ANSYS, and CATIA with 200+ hours of hands-on design and simulation experience. Skilled in Python and MATLAB for automation and data analysis, with strong problem-solving abilities for complex engineering challenges.</i></li></ul>	

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## PROFESSIONAL EXPERIENCE

<b>BUSINESS INTELLIGENCE ANALYST</b>	<b>2021 – 2022</b>
<i>Tendercuts Pvt. Ltd</i>	<i>Chennai, TN</i>
<ul style="list-style-type: none"><li>Implemented operational refinements and data analytics tools, resulting in a 15% rise in revenue for poultry, meat, and Value-Added Products.</li><li>Planned, coordinated, and analyzed supply chain processes, resulting in a growth of Value-Added Products from 4% to 15% and a revenue upsurge from 10% to 15%.</li><li>Leveraged data tools such as MySQL, Python, Microsoft Excel, and Tableau to analyze datasets, leading to data-driven decisions that contributed to a 10% increase in operational efficiency.</li></ul>	
<b>COMPUTER AIDED ENGINEERING ANALYST (CAE)</b>	<b>2021 (6mos.)</b>
<i>Udvavisk Technologies Pvt. Ltd</i>	<i>Chennai, TN</i>
<ul style="list-style-type: none"><li>Designed and conducted smoke and regression analysis to study smoke flow and device effective evacuation measures, improving evacuation time by 30%.</li></ul>	

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

### **SUMMER INTERN**

**2019 (2mos.)**

*TVS Motor Company*

*Chennai, TN*

- Conducted an in-depth study on consumer behavior within the 3-wheeler industry, focusing on service awareness, parts of life, and the current market scenario.
- Analyzed data provides a comprehensive overview of consumer nature, resulting in a 15% increase in parts purchases.
- Identified key factors affecting consumer satisfaction and provided actionable insights to improve and fine-tune current service offerings based on present-day market conditions, leading to a 20% upgrade in service efficiency.

### **CO-AUTHOR AND ENGINEER (RESEARCH PROJECT)**

**2019 – 2020**

*Anna University (College Of Engineering)*

*Chennai, TN*

- Developed a high-strength, lightweight aluminium copper alloy for mechanical and tribological applications through the heat-treatment process, achieving a 25% increase in material strength.
- Machined two aluminium alloy castings (4% by weight) for mechanical and tribological testing according to ASTM standards, using gravity casting and squeeze casting techniques, ensuring 100% compliance with quality benchmarks.
- Investigated tensile and wear activities of heat-treated specimens using UTM and pin-on-disc wear tester, resulting in a 20% improvement in wear resistance.
- Conducted morphological and worn surface analysis using SEM and XRD, demonstrating that heat-treated specimens showed a 30% improvement in mechanical properties compared to as-cast and squeeze-cast specimens.
- Prepared comprehensive documentation encompassing experimental methodologies, testing procedures, analysis techniques, and research findings, ensuring reproducibility, compliance with quality standards, and effective knowledge transfer for end-users.

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## **OTHER QUALIFICATIONS**

### **DIETARY AIDE**

**2023 – present**

*Sienna Senior Living*

*Barrie, ON*

- In hospital settings, ensure food is stored properly, maintain hygienic conditions, and follow nutritional guidelines by preparing and serving meals following dietary requirements.
- Provide outstanding customer service while collaborating with medical personnel to monitor patients' nutritional requirements, help with training and keep the eating room tidy.

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## **CERTIFICATIONS**

- 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
- AWS Academy Machine Learning Foundations
- Artificial Intelligence and Machine Learning (National Institute of Technology, Warangal)