# Sneha Sara Varghese
Application Specialist | Data Analytics | Power BI | Cloud Engineering
Peterborough, Ontario | (416)-828-6278 | **sneha.varghese.sara@gmail.com**
**LinkedIn** | **GitHub** | **Portfolio**

## Professional Summary

Application Specialist and Data Analyst with more than 3 years of experience in business intelligence, reporting automation, and data engineering across public-sector and enterprise environments. Demonstrated success in developing Power BI dashboards, optimizing data workflows, and implementing scalable solutions using Azure, SQL, and Python. Strong background in requirements gathering, cross-functional collaboration, and delivering actionable insights to support business operations and decision-making.

## Skills

- ***Programming & Databases:***
  Python | R | SQL (MS SQL Server, MySQL, Snowflake) | Git | Data Analysis
- ***Visualization & Business Intelligence:***
  Power BI | Tableau (familiar) | Excel (Advanced Formulas, Power Query, VBA) | ArcGIS (basic) | SSRS
- ***Machine learning & Modeling:***
  Regression | Classification | Clustering | Time-Series Forecasting | NLP(VADER, LDA, FinBERT) | Feature Engineering | Model Evaluation | Predictive Modeling
- ***Analytics & Statistical Methods:***
  Hypothesis Testing | A/B Testing | Time-Series Forecasting | Bayesian Methods | KPI Dashboards & Data Storytelling | Business Process Mapping | Data Transformation
- ***Data Engineering & Cloud:***
  Azure Data Factory | Azure Synapse | Azure Data Lake (ADLS Gen2) | Hadoop | Spark | ETL/ELT Pipelines | SSIS | SAP Business Objects
- ***Automation & Productivity:***
  Agile Scrum Methodology | PowerApps | Power Automate | Jupyter Notebook | RStudio | SharePoint | Microsoft Office 365 (Word, Excel, PowerPoint, Outlook)
- ***Data Governance:***
  Metadata Management | Data Lineage | Privacy Compliance | Data Quality Monitoring
- ***Soft Skills:***
  Cross-Functional Collaboration | Problem Solving | Analytical Thinking | Communication | Continuous Learning

## Experience

**City of Peterborough – Application Specialist**
*May 2025 – Present | Peterborough, ON, Canada*

- Developed and maintained Power BI dashboards and rebuilt 7+ legacy SAP Business Objects reports, increasing reporting adoption by 40% and reducing manual reporting time by 30%.
- Built PowerApps forms and applications, including a manager performance cheat-sheet app and an HR editing form, enabling structured performance reviews and real-time updates to SharePoint and Report Builder.
- Created Power Automate workflows for automated emails and approvals, reducing manual follow-ups by 40%.
- Worked with stakeholders to gather business requirements and deliver analytics solutions that supported faster data-driven decision-making by 25%.
- Documented technical documentation for dashboards, data models, and workflows, improving onboarding and knowledge sharing.

**Accenture - Software Engineer**
*Sep 2021 – Aug 2024 | Hyderabad, TG, India*

- Developed and maintained web applications in Agile/Scrum teams, ensuring adherence to coding and quality standards and improving overall project delivery speed by 25%.
- Performed root-cause analysis on application and data issues, implementing automation and fixes that reduced manual errors by 25%, and optimized SQL queries to cut report generation time by 15%.
- Authored technical documentation, process notes, and implementation guides to strengthen knowledge transfer, quality assurance, and continuous improvement across teams.

## Education

**M.Sc. Big Data Analytics,** Trent University, *Peterborough, ON, Canada* | **GPA** 92% | *Sep 2024 – Dec 2025*
**B.Tech. Electronics & Communication,** GRIET, *Hyderabad, TG, India* | **GPA** 9.3/10 | *Aug 2017 – Jul 2021*

## Certifications
- Microsoft PL-900 – Power Platform Fundamentals
- Microsoft SC-900 – Security, Compliance & Identity Fundamentals

## Projects

**AI Attitudes Survey Analysis at Trent University**                    *Sep 2025 – Dec 2025*

*Skills:* Python (Pandas, NumPy, Seaborn, Matplotlib), NLP (VADER, LDA Topic Modeling), Power BI, R, TAM/DIT Frameworks, Mixed-Methods Analysis, Data Cleaning & Visualization
- Analyzed 948 responses using EDA, sentiment models, and LDA topic modeling to uncover adoption patterns.
- Delivered Power BI dashboards that improved stakeholder understanding of AI readiness by 35%.
- Automated text preprocessing steps, reducing manual coding time by 40%.

**Azure Data Pipeline for Public Transit Delay Analysis**                    *Aug 2025 – Sep 2025*

*Skills:* Azure Data Factory, Azure Synapse, ADLS Gen2, SQL, Parquet, Power BI, Medallion Architecture, Time-Series Forecasting
- Designed an end-to-end ETL pipeline that processed 1M+ transit records using Medallion architecture.
- Improved data processing speeds by 30% through optimized transformations and parallelization.
- Built forecasting dashboards that reduced manual reporting work by 25% for transit operations teams.

**E-commerce Sales & Customer Insights**                    *Feb 2025 – Apr 2025*

*Skills:* Power BI, SQL, Hadoop, ETL, Data Cleaning, Data Transformation, Data Warehousing, Open Data, A/B testing
- Conducted segmentation and forecasting analysis that improved targeting accuracy by 12%.
- Built automated dashboards reducing weekly reporting efforts by 50%.

## Awards
- Recognized for improving system efficiency and optimizing reporting workflows across client projects.
- Selected to contribute analytics and visualization support to the Provost's AI Working Group at Trent University.

## Additional Information
- *Languages:* English (Fluent). French (Intermediate - conversational and reading proficiency).
- *Work Eligibility:* Authorized to work in Canada; open to hybrid or full in-office roles as required.
- *Leadership & Extracurriculars:* Served as Class Representative during undergraduate studies, mentored peers, and junior colleagues.