

Sneha Sara Varghese

Aspiring Data Engineer | Big Data Analytics Grad | Python, SQL, Spark, Azure
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ABOUT ME

Aspiring Data Engineer with 3+ years as a Software Developer and a strong foundation in building efficient systems. Completing a Master's in Big Data Analytics (GPA: 92%). Skilled in Spark, Hadoop, Azure, and SQL, with a record of cutting manual work and boosting performance. Passionate about designing scalable pipelines and making data useful across teams.

SKILLS

Programming & Databases

- Python, R, SQL (MS SQL Server, MySQL)
- Data Modeling, ETL/ELT Pipelines
- Data Warehousing, Medallion Architecture (Bronze-Silver-Gold)

Analytics & Statistical Methods & ML Methods

- Data Mining, Data Profiling, Hypothesis Testing
- Predictive Analytics, Regression Modeling,
- Statistical Analysis, KPI Tracking, Forecasting
- ML Frameworks: Scikit-learn, TensorFlow, PyTorch, HuggingFace Transformers

Visualization & Business Intelligence

- Power BI, Excel (Lookups, Pivots, VBA Macros)
- Data Visualization, Dashboard Development

Big Data & Cloud Platforms

- Azure Data Factory, Azure Synapse Analytics, Azure Data Lake Storage (ADLS Gen2)
- Apache Hadoop, Apache Spark
- Microsoft Azure (basic exposure; certifications: PL-900, SC-900)

Geospatial Analysis:

- GeoPandas, introductory Enterprise GIS, open data mapping

Tools & Productivity

- Jupyter Notebook, R Studio, Git, SharePoint
- PowerApps, Power Automate, MS Office 365
- Canva (for reporting design/visual storytelling).

EXPERIENCE

City of Peterborough | *Peterborough, Ontario, Canada*

05/2025 – Present

IT Applications Summer Student

- Designed Power BI dashboards for city budgets, police vehicle reporting, and reserve continuity reports to support executive decision-making.
- Integrated SAP OData with SQL/CDS views, cutting reconciliation time by 40% and improving reporting accuracy.
- Built a PowerApps tracker and automated workflows with Power Automate, streamlining project updates and approvals.
- Applied data governance practices include validation, privacy levels, and scheduled refreshes to ensure reliable reporting.

Accenture India | *Hyderabad, Telangana, India*

09/2021 – 08/2024

Custom Software Engineering Analyst

- Delivered clean, scalable software modules and reduced client defects by 30% through root cause analysis.
- Translated business requirements into 20+ sprint-ready stories, improving Agile team velocity.
- Increased QA coverage by 25% via acceptance test scenarios and documentation.
- Mentored junior developers and led code reviews, reducing post-deployment bugs by 20%.

EDUCATION

- **Trent University | Peterborough, Ontario, Canada** 09/2024 – 12/2025
Master of Science – Big Data Analytics
GPA: 92.125/100 | **Core Courses:** Statistical Analysis, Data Visualization, AI, Big Data.
- **GRIET | Hyderabad, Telangana, India** 08/2017 – 07/2021
Bachelor of Technology – Electronics and Communication Engineering
GPA: 9.3/10 | **Core Courses:** Python Programming, Java Programming, IoT.

CERTIFICATIONS

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

PROJECTS

Azure Data Pipeline for Public Transit Delay Analysis 08/2025 – 09/2025

Skills: Azure Data Factory, Azure Synapse, ADLS Gen2, SQL, Parquet, Power BI, Medallion Architecture

- Designed and implemented a medallion architecture (Bronze–Silver–Gold) in Azure Data Lake for TTC bus delay data.
- Automated data ingestion and transformation using Azure Data Factory pipelines.
- Built external tables and views in Azure Synapse to enable curated analytics.
- Developed Power BI dashboards for delay trends, peak vs. off-peak analysis, and top stations with delays.
- Applied data cleaning, SQL transformations, and aggregations for business reporting.

Urbanization & Development Visualization 05/2025 – 07/2025

Skills: Python, Pandas, GeoPandas, Plotly, Regression, Data Interpretation, Predictive Analytics Open Data

- Conducted gap analysis between urban development indicators and GDP growth across 190 countries using World Bank and UN open data.
- Built regression models to predict GDP and created geospatial visuals to guide policy decisions.

E-commerce Sales & Customer Insights 02/2025 – 04/2025

Skills: Power BI, SQL, Hadoop, ETL, Data Cleaning, Data Transformation, Data Warehousing, Open Data

- Designed dashboards for sales forecasting and customer segmentation, improving campaign targeting by 12%.
- Incorporated public open data sets to enrich analysis and improve market research accuracy.

Sentiment Analysis of Financial News & Its Impact on Stock Trends 02/2025 – 04/2025

Skills: Python, Transformers, Fin BERT, NLTK, Sentiment Analysis, Git, Data Ethics, Data Strategy

- Processed 10K+ financial headlines to identify stock trends; developed a prototype real-time decision dashboard for investment insights.

AWARDS

- Promoted to Software Engineering Analyst for exceptional contributions.
- Recognized for enhancing system efficiency and process optimization.

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.