

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 of experience as a Software Developer and a solid foundation in building efficient systems. Currently wrapping up a Master’s in Big Data Analytics (GPA: 92%). I enjoy designing scalable pipelines, connecting complex data sources, and making data useful across teams. Skilled in Spark, Hadoop, Azure, and SQL; with a history of cutting manual work and boosting system performance. Looking to bring that impact to a full-time data engineering role.

SKILLS

- Python

- R

- SQL

- Power BI

- Excel

- MATLAB
- Apache Hadoop

- Apache Spark

- SharePoint

- PowerApps

- Power Automate

- Time Series Analysis
- Data Mining

- Data Modelling

- Data Profiling

- Data Visualization

- Predictive Analysis
- Jupyter Notebook

- R Studio

- Microsoft SQL Server

- MS Office 365

- Machine Learning

EXPERIENCE

City of Peterborough

Peterborough, Ontario, Canada

05/2025 – 10/2025

IT Applications Summer Student

- Built a PowerApps app with SharePoint backend to track 50+ IT projects, improving update efficiency by 30%.

- Designed Power BI dashboards for 2025–2026 city budgets to support data-driven decisions across departments.

- Migrated reports to SAP Analytics Cloud using CDS views and integrated SQL + EAM data, cutting reconciliation time by 40%.

- Built a real-time Power BI dashboard to monitor vehicle reports, enabling faster decision-making for fleet management.

- Standardized 100+ e-forms into departmental templates, reducing errors by 25% and saving 10+ hours/month.

- Created Power Automate flows for approvals, emails, and status updates, improving response time by 20%.

Accenture India

Hyderabad, Telangana, India

09/2021 – 08/2024

Custom Software Engineering Analyst

- Engineered and maintained software modules with a focus on clean, scalable code, resulting in a 20% reduction in technical debt.

- Resolved 50+ defects and reduced client-reported issues by 30% through root cause analysis and rigorous testing.

- Translated business requirements into 20+ sprint-ready stories in Agile teams, directly contributing to improved sprint velocity.

- Collaborated with cross-functional teams (testing & data) to deliver a high-quality website, ensuring performance, accuracy, and compliance with client requirements.

- Increased QA coverage by 25% through the creation of detailed acceptance test scenarios and documentation.

- Mentored junior developers and led code reviews, contributing to a 20% reduction in post-deployment bugs.

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 Mining, 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, Signal Processing, Sensors (electromagnetic, ultrasonic), MATLAB

CERTIFICATIONS

- Microsoft PL-900 – Power Platform Fundamentals

- Microsoft SC-900 – Security, Compliance & Identity Fundamentals

AWARDS

- Promoted to Software Engineering Analyst for exceptional contributions.

- Recognized for enhancing system efficiency and process optimization.

PROJECTS

Urbanization & Development Visualization

05/2025 – 07/2025

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

- Conducted gap analysis between urban development indicators and GDP growth across 190 countries.

- Built regression models to predict GDP and created visuals using GeoPandas and Plotly to guide policy decisions.

<div>E-commerce Sales & Customer Insights</div> <div>02/2025 – 04/2025</div>	<div><i><u>Skills:</u></i> Power BI, SQL, Hadoop, ETL, Data Cleaning, Data Transformation, Data Warehousing</div> <div><ul style="list-style-type: none">- Designed dashboards for sales forecasting and customer segmentation, improving campaign targeting by 12%.- Performed market research and competitive analysis to guide product recommendations.- Supported cost-benefit analysis of customer retention strategies using KPI tracking.</div>
<div>Sentiment Analysis of Financial News & Its Impact on Stock Trends</div> <div>02/2025 – 04/2025</div>	<div><i><u>Skills:</u></i> Python, Transformers, Fin BERT, NLTK, Time Series Analysis, Sentiment Analysis, Git, Data Ethics, Data Strategy</div> <div><ul style="list-style-type: none">- Processed 10K+ headlines using Fin BERT & VADER to analyze stock trends; built a prototype dashboard for real-time decision-making.- Incorporated time series analysis for trend forecasting and built a prototype real-time monitoring dashboard.</div>