Sherwin Varghese

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EDUCATION

**Shri Govindram Seksaria Institute of Technology** Indore, MP

*Bachelor of Technology in Industrial and Production Engineering 08/ 2019 – 06/2023*

EXPERIENCE

**Open Source Contributor** 12/2023 – Present

 *GitHub Indore, MP*

* Implemented linking by harnessing Flask to incorporate the repository link into the UI and also reported and solved a Docker build issue on Arch Linux.
* Added [**sorting functionality**](https://github.com/nsidc/usaon-benefit-tool/pull/291) for 3 database tables, customized color schemes for nodes in Sankey charts, and resolved display issues in diagrams, enhancing product features.
* Enhanced website UX with strategic footer improvements, including an [**8x increase**](https://github.com/nsidc/usaon-benefit-tool/pull/291) in database character count and an [**auto-updating year feature.**](https://github.com/nsidc/usaon-benefit-tool/pull/251)
* Authored a data visualization tutorial using Plotly and Pandas, hosted in a repository with 25 stars on [**GitHub**](https://github.com/ML-Nagpur/Cool-Notebooks/pull/31).

**Project Engineer** 07/2023 – 10/2023

*Indian Institute of Technology Indore, MP*

* Spearheaded the development of a web app using Streamlit and Visual Python for real-time simulation visualization, boosting team efficiency by 40%.
* Eliminated 3 major bugs, enhancing the overall performance and reliability of the simulation software.
* Directed a team to deliver a powerful product demo at SETU, sparking a 50% rise in lead conversions and securing 5+ partnership opportunities.

 PROJECTS

 [**Polish Property Market Overview**](https://github.com/Sherwin-14/Polish-Property-Market-Overview)*| Python, SQL, Google Sheets*  08/2023 – 09/2023

* Amassed a substantial dataset of 70,000 rows from Brightdata of Otodom.
* Leveraged Snowflake for data warehousing enabling the resolution of over 10 queries related to the Polish property market.
* Utilized Python, Google Sheets, and OpenStreetMap API for transforming and translating data.
* Implemented a comprehensive dashboard in Snowflake for data visualization yielding over 5 key insights.

 [**Premier League Analysis**](https://github.com/Sherwin-14/English_Premier_League_Analysis)*| Python, Dash*  08/2023 – 09/2023

* Employed Python libraries such as Pandas and NumPy for data manipulation and analysis.
* Generated 12+ graphs using Plotly, Matplotlib, and Seaborn, facilitating data analytics and aligning with business objectives.
* Executed EDA on dataset, unveiling 10+ insights with substantial strategic decision-making potential.
* Engineered a Dash dashboard, providing key metrics and data-driven insights that addressed 10 critical questions.

 [**Metropolis Movers**](https://github.com/Sherwin-14/NYC_Taxi_Analysis) | *Python,* Postgre*SQL, Power BI*  03/2024 – 05/2024

* Conducted in-depth analysis of over 5 GB of data from the NYC Limousine Corporation sourced from Kaggle.
* Developed an Auto-ML model using PyCaret for fare prediction, achieving an impressive 86% accuracy rate.
* Leveraged SQL and business context to address more than 20 business-related questions.
* Created an end-to-end Power BI infographic with 5 operational recommendations for improved business performance.

 [**Atliq Mart Supply Chain Optimization** *|*](https://github.com/Sherwin-14/Atliq_Mart/blob/master/Supply_Chain_Dashboard.pdf) *Power BI, DAX Modelling*  03/2024 – 03/2024

* Analyzed over 100,000 rows of data, revealing a shortfall in On-Time In-Full delivery at 29.02% against a target of 65.91%.
* Conducted customer analysis, identifying that OTIF% for Propel Mart was the highest at 73.64% among all stores.
* Examined product-level data, discovering that milk had almost 4.7M orders, making it the most ordered dairy product.
* Devised 3 strategic recommendations to boost delivery and shipping efficiency based on data insights.

SKILLS

**Languages**: Python, SQL

 **Analytics and Dev Tools**: MS-Excel, Power BI, PostgreSQL, PowerPoint, BigQuery, Looker, Jira

 **Data Techniques :**  Business Intelligence, Predictive Analytics, Data Modeling, Key Performance Indicators

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Visual Python, PyCaret **Frameworks:** Dash, Streamlit, Flask

**Soft Skills:** Verbal Communication, Critical Thinking, Interpersonal skills, Transformation, Stakeholder Management