# 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, M*P

* Implemented Linking: Harnessed Flask to incorporate the repository link into the UI
* Reported and Solved Bug: Identified and reported Docker build issue on Arch Linux
* Enhanced the website’s user interface by adding appropriate elements to the footer, improving the overall user experience and website functionality
* Authored and contributed an interactive data visualization tutorial using Plotly and Pandas libraries, focusing on the analysis of the Airbnb Europe dataset.

**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 3major 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

# Academic Projects Experience

[**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.

[**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.

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

[**Loan Spectrum**](https://github.com/Sherwin-14/Finance_Domain) **|** *Excel* 08/2023 - 08/2023

* Performed data cleaning on a bank loan dataset of more than 100,000 rows using Excel functions.
* Analyzed loan parameters across 38.8k applications, categorizing them by month and state using Pivot Tables.
* Crafted an Excel dashboard offering 18 crucial insights into the bank’s financial health.
* Formulated 5 strategic recommendations aimed at reducing the bad loan percentage to a target of 8.9%.

# Skills

**Languages**: Python, SQL

**Analytics Tools** : MS- Excel, Power BI, MySQL, Advanced Excel

**Data Techniques:** Exploratory Data Analysis, Demand Forecasting, Statistics, Business Strategy

**Libraries:** : Pandas, NumPy, Matplotlib, Seaborn, Plotly ,Visual Python, PyCaret

**Frameworks**: Dash, Streamlit, Flask

**Project Management /Dev Tools**: Git, Jupyter, VS Code, PowerPoint