

# Vikram Vadhirajan

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• linkedin: [linkedin.com/in/vikram-vadhirajan](https://www.linkedin.com/in/vikram-vadhirajan) • GitHub: [github.com/VikramVadhirajan](https://github.com/VikramVadhirajan)

• Project Portfolio: [Portfolio-Website](#)



## Professional Summary

Data Analyst with **13+ years of experience** in analytics, automation, and product intelligence. Skilled in **Python, Machine Learning, Power BI, and ML model deployment**, with experience building automated data pipelines and decision-support dashboards.

## Core Skills & Tools

**Programming:** Python, SQL, PySpark

**Data Science:** Scikit-Learn, Pandas, NumPy, TensorFlow

**Machine Learning:** Feature Engineering, Model Deployment, Hyperparameter Tuning

**Visualization:** Power BI, Tableau, Excel, Matplotlib, Alteryx

**Big Data:** Azure Data Studio

**Data Processing:** ETL Pipelines, Data Cleaning, Data Validation

**Tools & Platforms:** VS Code, GitHub, Streamlit, KNIME

## Python & Machine Learning Projects

### Machine Learning Model Deployment [github.com/VikramVadhirajan/ML\\_Projects](https://github.com/VikramVadhirajan/ML_Projects)

- Built a **complete ML deployment pipeline** including preprocessing, encoding, model training, and inference.
- Created reusable Python modules for **data cleaning, encoding, outlier detection, and feature transformation**.
- Implemented **pickle-based model persistence** for deployment environments.
- Developed **Streamlit interface for model prediction and probability outputs**.
- Structured project using modular architecture for production-ready ML pipelines.

**Technologies:** Python, Scikit-Learn, Streamlit, Pandas, Pickle

### Python Automation Scripts Library [github.com/VikramVadhirajan/Python\\_Scripts](https://github.com/VikramVadhirajan/Python_Scripts)

- Built a collection of **Python automation scripts** for **XML→Excel conversion, Excel data cleaning/transformation, and web scraping** using **Pandas, and Selenium**.
- Developed reusable utilities for **data extraction, fuzzy text matching, QR generation, and image processing**, automating repetitive data tasks.

**Technologies:** Python, Pandas, Selenium, Numpy

## Professional Experience

03/2025-present

### Tools Used

Python  
Power BI

### Senior Data Analyst- Product Support- First Brands Group, Bengaluru

- Reduced Techline call rejections by **20%** by developing automated performance dashboards and workforce insights.
- Improved customer data quality from **20% to 95%** by integrating multi-source datasets and implementing standardized mapping rules.
- Automated warranty reporting using Python scripts extracting data from **O'Reilly, NAPA, and Advance Auto Parts**, eliminating **30+ manual hours monthly**.
- Produced insights on **vehicle configuration and AutoCare product classification data** supporting product coverage decisions.

10/2023- 03/2025

### Tools Used

Python  
Power BI  
Tableau  
MS Office  
Microsoft Azure

### Desktop Research Analyst- Product Innovation- First Brands Group, Bengaluru

- Increased product application coverage by **6%** through vehicle-in-operation data analysis.
- Performed **competitive intelligence analysis** using web scraping across Amazon, Walmart, eBay, and O'Reilly Auto.
- Conducted **customer sentiment analysis on Amazon reviews** to identify brand perception and pricing insights.
- Mentored junior analysts in Python programming and analytics workflows.

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10/2022- 10/2023 <b>Tools Used:</b> Power BI KNIME Python MS Office SAP	<b>Data Analyst Testing and Validation- ZF Group India, Chennai</b> <ul style="list-style-type: none"><li>Developed Power BI apps with <b>dynamic row-level security (RLS)</b> for role-based access control.</li><li>Built plan-vs-actual performance dashboards maintaining KPI variance within <b>±5%</b>.</li><li>Automated executive dashboards reducing manual reporting effort by <b>5 hours daily</b>.</li><li>Delivered advanced Excel training across teams enabling self-service analytics.</li></ul>
05/2019 – 09/2022 (Added Resp.)	<b>Data Engineering / Resource Planning, ZF India Limited, Chennai</b> <ul style="list-style-type: none"><li>Developed <b>Power BI dashboards integrating SAP and PLM data</b> to track KPIs, engineering performance, and resource utilization for leadership reporting.</li><li>Managed <b>resource planning, demand–supply forecasting, and project cost tracking</b>, supporting data-driven operational and financial decisions.</li></ul>
02/2018 – 09/2022	<b>Technical Project Manager, ZF India Limited, Chennai</b> <ul style="list-style-type: none"><li>Led engineering project execution from <b>RFQ to validation</b>, ensuring delivery targets for quality, cost, and timeline across global automotive programs.</li><li>Managed <b>PLM change processes and product cost analysis</b>, coordinating engineering changes and validation activities.</li></ul>
07/2012-01/2018 <b>Tools Used:</b> MS Office Creo 4.0 ANSYS v14.5	<b>Lead Engineer, Turbo Energy Private Limited, Chennai</b> <ul style="list-style-type: none"><li>Designed turbocharger components using <b>Creo and ANSYS</b>, supporting simulation-driven product development and prototype validation.</li><li>Collaborated with global teams on <b>benchmarking, concept design, and engineering validation</b>, including onsite work in Germany.</li></ul>

## Educational Qualification

02/2024-06/2025	Master of Data Science (Global) Deakin University <a href="#">Transcript</a>
04/2021-06/2022	PGP in Data Science and Business Analytics from University of Texas GPA -3.94/5 - <a href="#">Certificate-Academic e-portfolio- PGP DSBA- GL</a>
07/2008-05/2012	Bachelor of Technology in Mechanical Engineering from SASTRA University, Tanjore with CGPA-8.68

## Additional Interests/ Certification

Language	<ul style="list-style-type: none"><li>Deutsch- Goethe-zertifikat B1 (2015), from Goethe institute Chennai.</li><li>English - IELTS Academic 7.0 (2016), from British Council Chennai</li><li>Tamil, Tulu (mother tongue), and Kannada</li></ul>
Data Science	<ul style="list-style-type: none"><li>Power BI A-Z: Hands-On Power BI Training for Data Science- Udemy</li><li>Tableau 2020 A-Z: Hands-On Tableau Training for Data Science- Udemy</li></ul>