Vishal Wadekar

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Summary

As a passionate Data Analyst Intern, I specialize in data cleaning, visualization, and analysis. My experience with tools like Power BI and Python has equipped me to transform data into meaningful insights that drive strategy and performance. I aim to contribute my programming skills and analytical mindset to projects that challenge and inspire me.

Projects

Tech Usage Survey ETL and Dashboard Pipeline

• Built an automated Python ETL pipeline to fetch survey data from JotForm API, transform JSON, and store it in PostgreSQL.
• Implemented data validation, exception handling, and logging to ensure accurate and reliable processing.
• Set up email alerts for failures and scheduled daily pipeline execution using Windows Task Scheduler and APScheduler.
• Connected PostgreSQL to Power BI to create dashboards showing screen time trends, device usage, and satisfaction scores.

Vendor Performance Analysis – Retail Inventory & Sales

• Developed and optimized a complex SQL ETL pipeline to aggregate multiple tables, improving query performance using CTEs and data filtering for faster processing of large datasets.
• Conducted exploratory data analysis and hypothesis testing in Python to evaluate vendor profitability, pricing strategy effectiveness, and inventory turnover.
• Identified over-dependence on top 10 vendors (65.7% of purchases) and uncovered $2.71M in unsold inventory from low-performing vendors, recommending diversification and inventory optimization.
• Built interactive Power BI dashboards to visualize vendor performance, profit margins, bulk purchasing impact (72% cost reduction), and actionable insights for decision-makers.

Laptop Price Predictor

• Developed a machine learning model to predict laptop prices based on specifications such as brand, processor, RAM, storage, and operating system.
• Conducted data cleaning, feature engineering, and exploratory data analysis (EDA) to identify significant features affecting laptop prices.
• Implemented and compared multiple regression algorithms; finalized **Random Forest Regressor** achieving an **R^2 score of 0.87** on the test data.
• Built an interactive interface using **Streamlit** to test real-time predictions locally.

Education

Bachelor of Technology in Computer Science, **Marathwada Institute of Technology** 2021 - 2025

Skills

Languages: Python, SQL
Data Analysis & Visualization: Power BI, pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook
Databases & ETL Tools: PostgreSQL, MySQL, SQLAlchemy, pgAdmin, REST APIs, APScheduler
Developer Tools: VS Code, GitHub, Power Query, Google Colab