NIKESH BAGHAR

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ACADEMICS

Qualification	Institute	Board/University	%/CGPA	Year
PGP Data Science	Praxis Tech School		6.13 / 8	2025
B.Tech in Mechanical Engineering	Bharati Vidyapeeth College of Engineering Pune	Bharati Vidyapeeth (Deemed to be) University	8.92 CGPA	2022
CLASS XII	Kendriya Vidyalaya No. 1 Air Force Station Jamnagar	CBSE	73.6 %	2018
CLASS X	Kendriya Vidyalaya No. 1 Air Force Station Jamnagar	CBSE	10 CGPA	2016

WORK EXPERIENCE — 15 MONTHS

Tata Technologies Ltd. — **Associate** — **Aug`22 - Dec`23**

I began my professional journey at Tata Technologies Ltd., Gurugram, through campus placement, where I joined as a Graduate Engineer Trainee and was later promoted to Associate. I collaborated with Dassault Systmes as part of the technical team, specializing in CATIA V5, a leading mechanical design software. My core responsibilities involved delivering hands-on technical training sessions for automotive clients, providing on-site support to optimize their product design workflows, and resolving software-related technical and administrative issues. This role helped strengthen my client-facing communication, problem-solving skills, and technical depth in engineering tools.

PROJECTS

Predicting Flight Delays Using Machine Learning for Operational Efficiency in Aviation, Student at Praxis Tech School — ***Tools Used:Python***

Beyond operational insights for airlines, proposed an insurance-linked product innovation: delay predictions at booking time can enable passengers to opt for micro-insurance, paying a small premium to receive fare refunds for significant delays. This transforms delay forecasting into a monetizable service, enhancing customer experience and creating a potential revenue stream for travel platforms or insurers. The machine learning model is used to predict flight delays using over 6.4 million records of 2019 U.S. flight data, enriched with airline schedules, weather conditions, and airport-level features. Applied models like Logistic Regression, XGBoost after rigorous EDA and feature engineering.

Github Repository

Identifying Product Bundling Opportunities Using Sales Cointegration and Revenue Simulation, Student at Praxis Tech School — ***Tools Used:Python***

The approach enables bundling decisions, helping businesses boost sales of lagging products, optimize promotion timing, and improve cart value ultimately driving revenue and customer retention through targeted cross-selling. These are achieved by developing a bundling strategy using econometric techniques to identify product category pairs with long-term co-movement (cointegration). Applied OLS regression to estimate bundle ratios and used error correction models with z-score signals to detect underperforming categories. Simulated 5% revenue uplift and validated results using paired t-tests.

Github Repository

Portfolio Optimization Using Pair Trading of Stocks, Student at Praxis Tech School — ***Tools Used:Python***

The work proposes a cointegration-based pair trading approach for stock portfolio design that can be used to earn profit by the investors in the stock market. The innovative trading strategy provides the investors with reliable signals for triggering the short, long, or no action needed for carrying out transactions in the portfolio for one year from during the portfolio test period. The pair-trading models are trained and evaluated on real-world stock market data and the results are presented to demonstrate the effectiveness of the model.

Github Repository

Sales Performance Dashboard for Coffee Shop Chain Using Power BI, Student at Praxis Tech School — ***Tools Used:PowerBI, PostgreSQL***

Designed a dynamic Power BI dashboard to analyze daily sales data (Jan-June 2023) for a multi-location coffee shop chain. The dashboard empowers management with data-driven insights on peak sales periods and cold sales hours, high-performing products, and operational bottlenecks allowing them to decide on product bundling, discounts and offers. Connected data from PostgreSQL and developed KPIs including total revenue, MoM growth, category-wise sales, and store-level performance. Enabled interactive drilldowns by date, hour, and location, and compared weekday vs. weekend behavior.

Github Repository

TECHNICAL SKILLS

Python
SQL
PowerBI
Tableau
Catia
Microsoft Excel
Microsoft PowerPoint