

Dhaval Patel

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Summary:

Data Analyst with over 4 years of experience in leveraging Python, SQL, and data visualization tools such as Tableau and Power BI to extract actionable insights from complex datasets. Proficient in statistical analysis, predictive modeling, and dashboard development, contributing to significant efficiency gains and cost reductions. Expertise in automating data processes, conducting exploratory data analysis (EDA), and implementing machine learning algorithms to drive informed decision-making. Proven ability to collaborate with cross-functional teams and deliver valuable insights that foster business growth. Strong analytical, problem-solving, and communication skills, adept at translating data into actionable recommendations.

Education:

Masters of Science in Data Science, New Jersey Institute of Technology

May 2023

Relevant Courses:

Applied Statistics, Data Analytics with R, Machine Learning, Database Management Systems, Deep Learning, Web Mining, Data Mining, Data Analytics for Information System

Skills:

Methodologies: SDLC, Agile, Waterfall

Programming Languages: Python, R, SQL

Packages: NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, TensorFlow, Seaborn

Visualization Tools: Tableau, Power BI, Advanced Excel (Pivot Tables, VLOOKUP)

IDEs: Visual Studio Code, PyCharm, Jupyter Notebook

Database Management: MySQL, PostgreSQL, MongoDB, SQL Server, Oracle

Cloud Technology: Snowflake, AWS, Azure

Other Technical Skills: SISS, SSRS, Machine Learning Algorithms, Probability distributions, Confidence Intervals, ANOVA, Hypothesis Testing, Regression Analysis, Linear Algebra, Advance Analytics, Data Mining, Data Visualization, Data warehousing, Data Transformation, Data Storytelling, Association rules, Clustering, Classification, Regression, A/B Testing, Forecasting & Modelling, Data Cleaning, Data Wrangling, Jira

Experience:

Data Analyst, Merck & Co.

Oct 2022 - Current

- Created custom scripts and applications using Python to perform data analysis on metrics and resources related to GDO operations, ensuring timely and accurate data retrieval.
- Utilized libraries such as Pandas, NumPy, and matplotlib for data manipulation and visualization, resulting in a 30% increase in efficiency in analyzing operational data.
- Developed VBA macros for Excel to automate repetitive data cleaning and reporting tasks, reducing manual effort by 40% and increasing accuracy in reporting.
- Implemented SQL queries and stored procedures for automating data extraction from internal databases, resulting in a 50% reduction in data retrieval time.
- Conducted statistical analysis and predictive modeling using Python's scikit-learn libraries to identify trends and forecast GDO operations metrics.
- Designed time-series forecasting models to predict resource utilization, achieving a 70% accuracy rate in predicting future resource requirements.
- Prepared interactive dashboards and visualizations using tools such as Looker and Power BI to communicate insights and trends to stakeholders.
- Collaborated with GDO Managers and cross-functional teams to understand project requirements and deliver actionable insights.
- Monitored existent metrics and built new metrics, partnering with internal teams to identify process and system improvement opportunities.
- Generated complex queries to dive deep into process issues and innovate solutions to improve customer experience.

Data Analyst, HCL Tech

Aug 2018- Jul 2021

- Leveraged SQL for data extraction from transactional databases to analyze retail customer behavior and trends. Redesigned a dashboard system using Tableau to track and report retail metrics such as sales performance, customer demographics, and inventory turnover.
- Monitored and reported on key performance indicators (KPIs) related to sales, customer satisfaction, and profitability. Simplified exploratory data analysis (EDA) using Python (Pandas, NumPy) and SQL to extract valuable insights from complex retail datasets.
- Identified patterns in customer behavior, such as purchasing frequency, basket size, and brand loyalty, to inform marketing and sales strategies.
- Designed and implemented A/B tests to evaluate the effectiveness of different marketing strategies, analyzing the results to determine the impact on customer engagement and conversion rates.
- Implemented loyalty programs and retention strategies based on customer data analysis, resulting in a 10% improvement in customer retention rates.
- Identified bottlenecks and areas for improvement, providing actionable insights that led to process optimizations and increased operational efficiency.
- Conducted process improvements that resulted in a 20% reduction in order processing time and improved customer satisfaction.