Dhaval Patel

New Jersey | 201-809-9635 | dhavalptl319@gmail.com | Portfolio

Summary:

Data Analyst with over 4+ years of expertise in leveraging Python, SQL, and data visualization tools like 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. Skilled in automating data processes, conducting EDA, and implementing machine learning algorithms to drive informed decision-making.Proven track record of collaborating with cross-functional teams and delivering valuable insights to drive 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, DataVisualization, 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.
- 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 Spotfire 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.

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.
- Assessed changes based on A/B test results to improve customer engagement and conversion rates.
- Introduced AWS S3 for storing and accessing large volumes of raw and processed data efficiently.
- Achieved a 15% increase in sales conversion and a 10% improvement in customer retention through targeted marketing campaigns and personalized offers.
- Streamlined process mining tools to visualize and quantify workflow inefficiencies in retail operations, such as inventory management and order fulfillment.
- Conducted process improvements that resulted in a 20% reduction in order processing time and improved customer satisfaction.