Deep Himanshu Pathak

📍Houston, TX - 77058|📞 +1 (281) 760-5075|📧 deephpathak@gmail.com|in Deep Pathak

Professional Summary

A results-oriented Data Analyst skilled in statistical analysis and data visualization. Proficiently manipulates and cleanses large datasets using SQL and Python. Demonstrates expertise in leveraging data visualization tools like Tableau, Power BI, and Excel. Effectively communicates complex findings to diverse stakeholders, while consistently delivering actionable recommendations to drive business growth and enhance operational efficiency. Known for implementing robust data quality control processes to ensure accuracy and reliability.

Education

Master of Science in Engineering Management | University of Houston, Texas - USA   August 2018 – May 2020
Bachelor of Science in Mechanical Engineering | R. C. Patel Institute of Technology – India   August 2010 – May 2015

Area of Expertise

<u>Business Intelligence Tool</u> - Tableau, Microsoft Power BI, Qlik Sense, Google Data Studio, MS Excel.
<u>Data Base</u> - PostgreSQL, MySQL, MS SQL Server, Google Big Query, Amazon Redshift, Oracle DB.
<u>Language</u> - SQL, Python (Pandas, NumPy), PL/SQL, T-SQL.
<u>ETL tools</u> - SSIS, Informatica Power Center, Azure Data Factory.
<u>Cloud Technologies</u> - AWS, Google Cloud Platform.
<u>Data Governance</u> - Collibra.
<u>Methodology</u> - Agile, Waterfall, Kanban, Scrum.

Professional Experience

SENIOR DATA ANALYST | Deloitte – Houston, TX   June 2023 – Present

- Developed interactive dashboards and reports using Tableau, resulting in a 20% increase in data accessibility and decision-making efficiency.
- Conducted in-depth analysis of customer behavior using Tableau Dashboards, leading to a 15% improvement in marketing campaign targeting.
- Wrote complex ad-hoc MS SQL Server queries involving correlated subqueries, window functions and common table expressions to track user activity metrics such as retention rate and daily active user. Optimized existing queries to reduce query execution time by 20%.
- Utilized Python (Pandas, NumPy) for data manipulation and analysis, automating repetitive tasks and saving 10 hours per week.
- Created dynamic dashboards in Tableau to monitor supply chain performance, resulting in a 5% reduction in inventory holding costs.
- Collaborated with cross-functional teams in Agile sprints, ensuring timely delivery of analytics solutions.
- Developed complex SQL queries in Google Big Query to analyze customer behavior and identify cross-selling opportunities.
- Conducted exploratory data analysis using Google Big Query, identifying customer behavior patterns and segmentation opportunities.
- Conducted A/B testing on website design elements, improving user experience, and reducing bounce rates by 5%.
- Integrated Tableau with third-party APIs to enrich customer data, enhancing personalization efforts and customer engagement.
- Analyzed customer churn data using Tableau to identify churn predictors and implement targeted retention strategies, reducing churn rate by 8%.
- Generated 15+ matrix reports, drill-down, drill-through, sub-reports, chart reports, and multi-parameterized reports, facilitating comprehensive data analysis.

SENIOR DATA ANALYST | Ernst & Young – San Antonio, TX   October 2021 – June 2023

- Developed Power BI dashboards to monitor key financial metrics, leading to a 20% reduction in reporting time.
- Implemented DAX measures to calculate complex financial ratios and performance indicators.
- Utilized Power Query for data cleaning and transformation tasks, improving data accuracy by 30%.
- Lead designer of Capital Risk Management dashboard for leading Global Investment Bank, helping to define their Business Intelligence Strategy and designed the logical data model to create web intelligence reports linked to the dashboard.
- Managed data pipelines in PostgreSQL, ensuring timely and accurate data processing.
- Wrote Python scripts to automate data ingestion processes from Amazon S3, reducing manual effort by 40%.
- Integrated data governance processes using Collibra, ensuring compliance with regulatory standards.
- Implemented CI/CD pipelines for automated deployment of BI solutions, resulting in a 25% reduction in deployment time.
- Conducted data lineage analysis to trace data from source to destination, enhancing data transparency and accountability.
- Collaborated with stakeholders to define data governance policies and standards.
- Provided training sessions on data visualization and analytics tools for business users.
- Contributed to the design and implementation of OLAP Data warehouse, demonstrating expertise in OLAP and OLTP cube, data mining, and architecture for 3 major projects.

BUSINESS DATA ANALYST | International Monetary Funds – Washington D.C.   October 2020 – October 2021

- Developed Tableau dashboards to visualize global economic indicators and financial trends, resulting in a 15% improvement in data-driven decision-making.
- Utilized MS Excel for economic analysis and forecasting tasks, improving accuracy in predicting global economic trends by 10%.
- Designed and implemented ETL processes using SQL Server Integration Services (SSIS), reducing data processing time by 25%.
- Executed SQL queries in SQL Server Management Studio (SSMS) to retrieve and analyze macroeconomic data, resulting in a 20% increase

in data accessibility.

- Implemented Python libraries such as Pandas and NumPy for advanced economic modeling and analysis, reducing manual effort by 30%.
- Automated data cleansing and transformation tasks using Python scripts, resulting in a 35% increase in efficiency.
- Conducted rigorous data profiling and quality assessments, identifying, and resolving 95% of anomalies and discrepancies.
- Developed comprehensive documentation for ETL processes and data flows, enhancing process understanding by 50%.
- Collaborated with economists and analysts to gather requirements and design data solutions, resulting in a 25% increase in project efficiency.
- Provided technical support and training to economists and analysts, resulting in a 60% increase in data tool proficiency among staff members.
- Conducted regular data profiling and analysis to identify trends, anomalies, and outliers, contributing to data quality improvement initiatives.
- Troubleshot performance issues, fine-tuned queries, optimized stored procedures, enhancing system efficiency and responsiveness.

GRADUATE TEACHING ASSISTANT | University of Houston – Clear Lake, TX   February 2019 – May 2020

- Assisted in data collection and cleaning for research projects, handling over 5000 data points with meticulous attention to detail.
- Conducted statistical analysis using Python, contributing to the identification of significant trends and patterns in research datasets.
- Supported the development of predictive models and algorithms, resulting in a 15% improvement in model accuracy.
- Conducted literature reviews and contributed to the preparation of research papers and presentations, aiding in knowledge dissemination within academic and industry circles.
- Collaborated with the professor and fellow graduate students to design and execute experiments, collecting data to validate research hypotheses.
- Provided technical support to students enrolled in data analytics courses, facilitating their understanding of key concepts and tools.
- Assisted in the creation of course materials, including lecture slides and assignments, ensuring alignment with learning objectives and industry standards.
- Participated in research meetings and brainstorming sessions, offering insights and suggestions to enhance project outcomes.
- Demonstrated proficiency in data visualization techniques, creating compelling charts and graphs to communicate research findings effectively.
- Played a key role in organizing academic workshops and seminars on topics related to data analytics, contributing to the dissemination of knowledge and best practices in the field.

OPERATIONS ASSISTANT | University of Houston – Clear Lake, TX   September 2018 – February 2019

- Managed logistics for research projects, coordinating data collection efforts and ensuring timely delivery of project milestones.
- Maintained databases and research repositories, organizing data files and documentation for easy access and retrieval.
- Assisted in the preparation of grant proposals and funding applications, providing data and analytical support to strengthen project proposals.
- Conducted market research and competitive analysis for industry-focused projects, providing valuable insights to support strategic decision-making.
- Collaborated with external partners and stakeholders on research collaborations, facilitating data sharing and collaboration agreements.
- Provided administrative support to the professor, including scheduling meetings, managing email correspondence, and coordinating travel arrangements.
- Assisted in the organization of academic conferences and events, handling registration, logistics, and participant communications.
- Conducted data entry and verification tasks, ensuring the accuracy and completeness of research datasets.
- Contributed to the development of project reports and presentations, summarizing research findings and recommendations for diverse audiences.

BUSINESS ANALYST | Maitri Solution Pvt. Ltd - INDIA   February 2015 – July 2018

- Acquired proficiency in SQL within the first three months, executing over 100 data queries and manipulations to support various business operations.
- Developed and delivered 10 Tableau dashboards showcasing sales performance, inventory levels, and customer demographics, aiding in strategic decision-making processes.
- Contributed to ETL processes, handling the transformation of 500,000+ records monthly, ensuring data accuracy and integrity.
- Conducted data validation and reconciliation activities for 100,000+ records quarterly, ensuring data consistency across systems.
- Completed 50 ad-hoc data analysis requests from various departments, providing timely and actionable insights to support decision-making.
- Participated in 10 professional development opportunities, including workshops and online courses, to enhance skills in SQL, Tableau, ETL processes, and advanced Excel techniques.
- Contributed to the documentation of 5 data processes and procedures, ensuring knowledge sharing and adherence to best practices.
- Developed Excel-based financial models to forecast sales trends, inventory turnover, and profit margins, resulting in improved inventory management strategies and a 10% increase in profitability.
- Implemented advanced Excel functions such as VLOOKUP, INDEX-MATCH, and array formulas to automate data analysis tasks and streamline reporting processes, reducing reporting time by 20%.
- Created dynamic dashboards and reports using Excel's PivotTables and Pivot Charts, providing actionable insights on sales performance, product mix, and customer demographics.
- Applied statistical functions in Excel to perform descriptive and inferential analysis, including regression analysis, hypothesis testing, and variance analysis, to extract valuable insights from data.