PREETI SHARMA

Data Engineer

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**SUMMARY**

Data-driven professional with 4+ years of experience in data analysis, visualization, and communication. Proven ability to leverage SQL, Python, Tableau, and Power BI to extract insights and develop actionable dashboards that improve decision-making across diverse sectors (Transportation, healthcare & supply chain). Skilled in analyzing, designing and implementing data solutions, data cleansing, manipulation, and transformation, with a strong foundation in analytical thinking.

**AREAS OF EXPERTISE**

Technical Skills: Business Skills:

✓ SQL ✓Risk Assessment & Mitigation

✓ Python (Panda, Numpy, Matplotlib, Seaborn), ✓ Conflict Resolution

✓ Tableau ✓ Data interpretation & Cleaning

✓ Microsoft Power BI (Power Query, DAX expressions) ✓ Data Mining ETL Process

✓ GitHub ✓ Statistics & Probability

✓ JIRA ✓ Project Management

✓ Confluence ✓ Agile Environment

✓ Trello ✓ Business Requirement Gathering

✓ API protocols ✓ Cross Functional Collaboration

✓ AWS

✓ API protocols

✓ Microsoft 365(Office, Excel, Teams, Outlook)

✓ Linux

**PROFESSIONAL EXPERIENCE**

**Healthcare Data Analyst (Remote)**

NumpyNinja Delaware, US, Aug’23- Present

* Utilized SQL, Python libraries (Pandas), and Tableau for data cleaning, transformation, and visualization in healthcare projects.
* Led a team of 5 in data analysis projects, resulting in improved patient care metrics (e.g., early intervention rates).
* Developed KPI dashboards in Tableau, contributing to a 15% improvement in ICU performance metrics.
* Developed and optimized SQL and Python scripts for data transformation and visualization, enhancing data quality retrieval efficiency.
* Analyzed patient data to identify correlations and generate insights (e.g., relationship between diabetes

and kidney disease).

* Analyzed 17 biomarkers for early detection of kidney failure across four demographics, using SQL and Python for data transformation and visualization.
* Developed KPI dashboards for ICU sepsis patients, improving ICU performance by 15% using Tableau.
* Identified key stress factors improving student performance by 15%, using SQL for data insights.
* Used Power query editor in PowerBI, DAX, SQL functions to perform data cleansing and pre-processing was done using google and documentation from stakeholders.
* Presented data visualizations to effectively communicate findings to stakeholders
* Used Numpy Panda Python library for manually cleaning of data to summarize, file and consolidate data for various groups of clinical testing results like MRI markers, lab tests and cognitive tests.
* Developed and presented visually appealing data visualizations in Tableau to effectively communicate findings based on demographic and health information, to the stakeholders.
* Performed correlation analysis between Diabetes and Kidney Patient demography, Albumin and kidney effects were calculated in Diabetes.
* Analyzed patient data and determined that 96% of patients with a history of Diabetes for more than 15 years, develop Hypertension.
* Used Numpy Panda library for manually cleaning of data to summarize, filter and consolidated data for various groups of clinical testing results like MRI markers, lab tests and cognitive tests.
* Developed and presented visually appealing data visualizations in Tableau to effectively communicate findings based on demographic and health information, to the stakeholders.
* Correlation analysis was performed between Diabetes and kidney Patient demography, Albumin and kidney effects were calculated in Diabetes.
* Analyzed patient data and determined that 96% of patients with a history of Diabetes for more than 15 years, develop Hypertension.
* Utilized SQL, Python, Tableau, and Power BI to create visual data representations, enhancing proactive interventions for sepsis.
* Facilitated cross-functional collaboration, improving analytical performance by 20%.
* Published and maintained 15+ Tableau workbooks, ensuring stakeholder accessibility and usability.
* Optimized SQL queries, reducing query execution time.

**Data Analyst**

Electrifuel India, Feb’20 – Aug’23

* Collected, analyzed, and interpreted data from electric vehicle (EV) telematics solutions. Provided insights crucial for improving products like optimizing the battery performance.
* Collaborated with engineering teams to understand data collection processes and ensure data quality.
* Performed exploratory data analysis (EDA) to identify trends, patterns, and anomalies in vehicle performance, battery health, and user behavior.
* Developed and implemented data visualization dashboards to communicate insights to stakeholders across the organization.
* Supported the development and testing of new features for the telematics solutions based on data analysis.
* Conducted statistical analysis to identify factors impacting battery performance, range, and charging efficiency.
* Generated reports and presentations to effectively communicate data-driven insights and recommendations to technical and non-technical audiences.
* Analyzed the latest trends and technologies in EV vehicle data analysis and visualization.

**Math Teacher**

DAV Public School India, Aug ‘15 – Feb’17

* Instructed 100+ senior grade students, achieving a 10% increase in average test scores compared to previous years.
* Collaborated with fellow teachers in developing the classroom training tools and curriculum.
* Facilitated 5 workshops on curriculum development, enhancing the teaching skills of 20 educators.
* Generated 200+ performance reports for students and staff, providing valuable insights for academic improvement and professional development.
* Ensured compliance with 100% of local, state, and national education standards, resulting in successful accreditation reviews.

**Volunteer**

YMCA Calgary, Jun’22 –Mar’23

* Assisted 20+ students from vulnerable communities, resulting in a 25% improvement in academic performance.
* Collaborated with coordinators to support 15+ students struggling with Math, resulting in a 30% increase in understanding and retention of Math concepts. Partnered with coordinators to support students in need, emphasizing Math concepts.
* Promoted YMCA in recruiting youth and students, maintaining a safe learning environment and organizing training sessions. Trained 2 new volunteers, contributing to a 20% increase in youth engagement and participation in YMCA programs.

**PROJECTS**

**Pleasant Street Civil Rights and Cultural Arts Center Inc., Florida**

Conducted a comprehensive data analysis to demonstrate the feasibility and effectiveness of data-driven insights for a proof of concept initiative

**Monthly Report | Cowichan Valley PCN Community, British Columbia**

Provided insights on the relationship between patients and most responsible practitioner in town.

**Prediction of Sepsis | NumpyNinja**

Utilized Tableau to create dashboards identifying key business intelligence metrics.

**Analysis of Diabetes Data | NumpyNinja**

Analyzed patterns and extracted insights using Tableau and SQL.

**Impact of Covid on Humans | NumpyNinja**

Aggregated and cleaned data for a linear regression model using SQL and Excel.

**Data Visualization Dashboards | Personal Project**

Developed inventory sales analytics dashboards for BigRig Trailers & Leasing using Power BI and Tableau..

**BLOGS**

[**Triggers in SQL**](https://medium.com/@bhardwajpreeti17/triggers-in-sql-4e09ea93a49c)

[**Window Function**](https://medium.com/@bhardwajpreeti17/window-functions-32140bb5a59f)

[**Resampling**](https://www.numpyninja.com/post/what-is-resampling)

**EDUCATION**

Master of Science - Honors (Mathematics) Panjab University, Aug’10

Bachelor of Science - Mathematics Panjab University, Aug’08

East West College, Calgary - PG Diploma Business Administration Calgary