PREETI SHARMA

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SKILLS

Technical Skills: SQL, Python, Tableau, Microsoft Power BI, DAX expressions, MS Excel (Vlookup, countif, pivot tables, conditional formatting), JIRA, Confluence, Trello, Linux, Google Suite, Adobe.

Business Skills: Data Analysis, Data Modeling, interpretation & Cleaning, domain knowledge – Healthcare & transportation, Statistics & Probability, effective communication, presentation skills, project management, scrum meetings & sprints, Compliance.

Summary

Data Analyst with over a decade of experience across the healthcare, education, and transportation sectors. Proficient in leveraging SQL, Python, and advanced analytics tools like Tableau and Power BI to extract, clean, and visualize complex datasets. Proven track record of utilizing SQL for robust data analysis and driving data-informed decision-making processes. Skilled in leading cross-functional teams and collaborating with stakeholders to deliver innovative solutions. Passionate about leveraging technology, particularly SQL, to solve real-world challenges and drive business growth

WORK EXPERIENCE

Data Analyst (Remote)
NumpyNinja   Delaware, US, Aug'23- Present

- Leading a team of **5** for data analysis in the healthcare industry, analyzed patterns, and extracted insights related to **diabetes**.
- Identified early indicators of diabetes, resulting in a **20% increase** in early intervention rates among **150** patients on cognitive impairment and the relation between them, enabling early interventions and improved patient care.
- Working on **17 Biomarkers** responsible for early detection of kidney failure in a population of 4 different demographics i.e. White, African, Asian and Latinos.
- Implemented dashboards resulting in a **15% reduction** in average length of ICU stays for sepsis patients, leading to significant cost savings. Working with clinical dataset & designing KPI dashboards (Length of stay, throughput etc.) for ICU Sepsis patients using Tableau **calculated field**.
- Identified **key stress** factors resulting in a 15% improvement in student performance and well-being. Assessed and analyzed the **stress levels** on students of a classroom having **15 pupils**, different parameters such as **HRV**, **HR**, **Glucose** value, **IDMSS**, their eating habits were analyzed using SQL to provide insights to data scientist team.
- Developed **early indicators** of Sepsis, enabling proactive interventions and improving patient outcomes. Utilized SQL, Python, Tableau data visualizations, and Power BI to collect, transform, and organize data, resulting in developing early indicators of Sepsis which enabled **proactive** interventions and **improved** patient outcomes. Over **500 patients** were analyzed for effect of sepsis on them and the effect.
- Analyzed the role of demographic parameters with respect to sepsis which helped in inferring that patient' in the higher age bracket (**65+**) especially males are have a longer length of stay and are more vulnerable to sepsis as compared to females.
- Facilitated cross-functional collaboration resulting in a **20%** increase in the **accuracy** of analytical findings and interpretations. Collaborated with healthcare professionals and domain experts to validate analytical findings and interpretations.
- Published and maintained **15+ workbooks** on Tableau Server/Online, ensuring accessibility and usability for stakeholders. Communicated insights and recommendations effectively to non-technical stakeholders and

healthcare professionals. Working with data engineers, product team and internal customers to create analytic products.

- Identified the dominant biomarkers - WBC, Platelets, base Excess and lactate which plays a significant role in the incidence of Sepsis by using concepts of advanced Tableau like Dual axis, Blended axes, control charts, spark line charts, funnel charts, pareto charts, correlation charts in addition to basic charts like Bar plots, Box plots, scatter plots, heat map and thus requires regular monitoring by the clinicians.
- Sound knowledge of Agile methodologies, utilized tools such as JIRA, Confluence board and Slack for support activity.
- Optimized SQL queries, resulting in a **20%** reduction in query execution time for large datasets. Worked on complex SQL queries to work with large data sets(about 1 million records).

Volunteer Tutor

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.

Head of the Department

National Public School   India, Feb'17 – Aug'21

- Successfully hired and managed a team of **30+** teaching and non-teaching staff members, resulting in a **15%** increase in overall staff performance ratings. Worked with Principal in hiring, supervising, evaluating and maintaining staff for teaching and non-teaching positions.
- Developed and implemented training materials for **50+** staff members, leading to a **20% improvement** in adherence to SOPs and benchmarking criteria.
- Managed the approval and admission process for **500+ students annually**, resulting in a **10% increase** in student retention rates.
- Handled 20+ data requests from government agencies, ensuring compliance with regulations and timely reporting.
- Conducted training sessions for **40+ teachers**, resulting in a 25% **increase** in the use of technology to enhance math education. Trained teachers on use of "Desmos" & "Delta Math", to explore and visualize mathematical concepts, graph mathematical functions, equations, and inequalities.
- Delivered presentations and seminars input data points and visualize them on the graph using graphical tools.
- Generated 100+ **performance reports** annually, providing actionable insights for staff development and student support.
- Supervised testing areas, halls or lunchroom areas and assisted teachers in classrooms as required.
- Monitored school budget for cafeteria, sports department, housekeeping, and gardening.
- **Graded 500+ exams and worksheets**, maintaining accuracy and consistency in assessment processes.
- Developed and implemented **5+** long-term school programs, enhancing student engagement and academic achievement

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.

PROJECTS

Prediction of Sepsis – Numpy Ninja

Analysis of Diabetes Data – Numpy Ninja
Utilized Tableau to create dashboards from 5 data sets, identifying key business intelligences.

Impact of Covid on Humans – Numpy Ninja
Aggregated 467,890 data points across 5 datasets in SQL and MS Excel.
Cleaned and transformed data for building a linear regression model.
Experience with SQL, Tableau Desktop, Power BI and Python.

Data Visualization Dashboards – Personal Project
BigRig Trailers & Leasing – Inventory Sales Analytics (Power BI/ Tableau)
Experience in working with large datasets to provide sales inside and provided sales price predictions for Semi trucks and Trailers.

EDUCATION

Diploma in Business Administration East West College of Business &Tech, Calgary
Office Management Skills CIWA, Calgary, Oct'22
Master of Science - Honors (Mathematics) Panjab University, Aug'09
Bachelor of Science Mathematics Panjab University, Aug'07