

DIANA TORRES

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DATA ANALYST

PERSONAL PROFILE

Detail-oriented, bilingual engineer with expertise in Python, SQL, R, Tableau, Access, Excel, and a strong foundation in statistics and linear regression. Proven experience in transforming raw data into actionable insights through advanced analytics, data transformation, and dynamic visualization. Skilled in collaborating with cross-functional teams to deliver data-driven solutions and optimize performance.

HIGHLIGHTS OF QUALIFICATIONS

- **Advanced Analytics & Modeling:** Conducted predictive modeling, statistical analysis, and hypothesis testing in Python and R to extract business insights and optimize decision-making.
- **Data Transformation & Integration:** Proficient in SQL, MongoDB, and Python for cleaning, structuring, and integrating large datasets, ensuring accuracy and efficiency in database management.
- **Visualization & Reporting:** Developed interactive dashboards in Tableau, Excel, and ArcGIS to track KPIs, identify trends, and support data-driven strategies.
- **Process Automation:** Implemented ORM and MySQL integration in JavaFX applications, optimizing database operations and automating data processing tasks.
- **Cross-functional Collaboration:** Partnered with stakeholders to design HR management and sales analytics solutions, aligning data insights with business objectives to improve performance and efficiency.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R, MATLAB, Java
- **Analytics & Modeling:** Predictive Modeling, Linear Regression, Hypothesis Testing, Statistical Analysis
- **Data Visualization:** Tableau, Excel Pivot Tables & Dashboards, MS Access Queries & Reports, ArcGIS.
- **Collaboration Tools:** Slack
- **Databases:** SQL, MongoDB, MS Access

EDUCATION

Sault College Applied of Arts and Technology
Computer Programming Diploma

January 2024 – Present

Relevant coursework:

- Created Python Voice Assistant using NLP Ollama with 90% speech recognition, MySQL logging, and PyQt5 GUI to automate workflows.
- Designed and developed a JavaFX HR Management Application with MySQL integration, implementing ORM for efficient database operations and a user-friendly GUI

with TableView for data visualization, validated through JUnit testing to ensure robust functionality.

- Analyzed sales performance for a retail database by extracting and processing MySQL sales data using Python (pandas, MySQL connector), resulting in insights on revenue trends, top-performing products, and regional sales distribution to support business decisions.

Google Data Analytics Certificate Coursera

February 2023 – June 2023

Conducted a comprehensive analysis of bike-share data using R, cleaning and merging 12 months of trip data to identify key differences between member and casual riders, uncovering 23% longer average ride times for casual users and 15% higher weekend usage, with insights visualized in ggplot2 to inform customer conversion strategies.

Bachelor of Engineering – Biotechnology

September 2013 – January 2018

Relevant coursework: Optimized production processes using Hoshin Kanri and PDCA methodologies, implementing data-driven improvements such as Value Stream Mapping and Poka-Yoke techniques, which reduced cycle times and increased production efficiency to 91.48% while minimizing waste through a pull-based inventory system.

WORK EXPERIENCE

Biotechnology Project Lead ArcelorMittal

September 2021 – December 2021

- Drove a 3% boost in production efficiency by leveraging statistical process control using \bar{X} -R Charts in MATLAB and Excel to optimize oxygen purity levels, reducing process variability and waste.
- Coordinated field visits to assess equipment and worker compliance, delivering actionable insights via visual reports.
- Authored manuals for ISO 9001 certification, ensuring alignment with international quality standards.

Au-Pair. Educational Coordinator Cultural Care

August 2018 – August 2021

- Organized daily schedules and safety protocols, achieving 100% parental satisfaction through transparent communication
- Delivered tailored Spanish lessons, enabling a child to achieve bilingual proficiency and admission to various top-tier bilingual schools.

Assistant Store Manager Medigroup del Pacífico

May 2016 – May 2017

- Leveraged Tableau to create real-time inventory tracking dashboards, reducing procurement errors by 80% and eliminating 100% stock discrepancies by replacing manual tracking with automated alerts and trend analysis.
- Applied Six Sigma principles using DMAIC framework to optimize procurement workflows, using RCA to eliminate inefficiencies and increase process accuracy by 50%, directly contributing to an 80% reduction in procurement errors.
- Led a team of 8 staff, overseeing daily operations, financial reporting, and audits to ensure compliance with organizational standards