Aaryen DSouza

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TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, SQL, HTML/CSS
Databases: Oracle SQL, PostgreSQL, MySQL, MongoDB, PL/SQL
Data Manipulation & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI, PySpark
Frameworks: React, Django, Redux, Node.js, Express, WordPress, Material-UI, Bootstrap, Tailwind CSS
Dev Tools: Git, GitHub, Jupyter Notebook, Google Collab, VS Code, DataGrip, PyCharm, IDEA, Postman, Jira
Other Skills: Windows, Linux/Unix (Ubuntu, CentOS), Shell Scripting, Microsoft Excel, Google Sheets

PROFESSIONAL EXPERIENCE

Student Data Analyst Intern | *Oracle SQL, MS Excel, Python, Power BI, Jira*   May 2025 – Present
Office of Institutional Analysis, University of Windsor   *Windsor, Ontario, Canada*

- Developed and maintained **centralized data models and reports** using **SQL, Power BI, and Excel**, improving accessibility of key institutional metrics across departments.
- Performed **data extraction, transformation, and quality assurance** on large university datasets (100K+ records) using **SQL and Python**, ensuring accuracy and consistency in reporting.
- Created clear **process documentation and reporting guidelines**, enhancing reproducibility of analysis and reducing onboarding time for new team members.

Software Engineer | *Oracle SQL, MS Excel, Python, Bash/Shell Scripting, Java, Linux, Jira*   Jul 2022 – Mar 2024
Vermont Information Processing   *Mumbai, India*

- Ensured data integrity by cleaning, preprocessing and validating data in **Oracle SQL** and **MS Excel**, fixing 95% of data quality issues, and providing detailed analysis reports for price plans, reimbursements and chargebacks.
- Reduced issue resolution time by 40% for 100+ customer-reported issues by performing in-depth root cause analysis (RCA) on legacy app server and Oracle database, leading to faster issue identification and customer satisfaction.
- Automated ETL workflows by implementing **Bash/Shell** scripts, optimizing data workflows, and reducing manual interventions by 20%, which led to streamlined data onboarding efficiency.

PROJECTS

Loan Insights Dashboard | *Power BI, SQL, Data Visualization, Dashboard Design, Financial Analytics, Git*   Jan 2025
GitHub

- Developed an interactive loan data analysis dashboard using **Power BI** and **SQL**, enabling real-time insights into 5+ key financial metrics, borrower behavior, and loan performance, improving data accessibility for decision-makers.
- Enhanced data visualization and reporting by implementing **10+ KPI** tracking, trend analysis, and loan classification, improving financial strategy planning.
- Optimized loan performance tracking by improving **data processing** and designing **3 interactive dashboards**, enabling better risk assessment and lending pattern identification.

Predictive Caching for Web Pages | *Python, Pandas, Matplotlib, Statsmodels, Scikit-learn, Git*   Nov 2024
GitHub

- Created a hybrid AI-driven caching system combining **ARIMA** for time-series forecasting and LLM for contextual analysis, improving cache efficiency and reducing latency in high-traffic scenarios.
- Automated data preprocessing for 1M+ records, implementing normalization, and missing value imputation leveraging **Python** and **Pandas**, to guarantee reliable data for predictive models, and conducted exploratory data analysis (EDA) on 500K+ web traffic data to identify trends and visualize key insights with **Matplotlib.**
- Built and optimized ARIMA models to forecast future page views, achieving high accuracy with RMSE values of **4.41** for ARIMA and **4.67** for Auto-ARIMA, and generated forecasts for the next 30 days.

EDUCATION

University of Windsor | *Available for 4–8 month Co-op/Internship Starting May 2025*   Windsor, ON
Master of Applied Computing (Grade: 88.44%)   *May 2024 – Present*

University of Mumbai   Mumbai, India
Bachelor of Engineering - Computer Engineering (CGPA: 8.58/10)   *Aug 2018 – May 2022*