Tetiana Klitna

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PROFESSIONAL SUMMARY

Business Intelligence Analyst/Developer with over 5 years of experience in Data Engineering. Expertise in cleaning and transforming large datasets into actionable insights using advanced data modeling and visualization techniques. Proficient in SQL, Python, and Power BI, with a proven ability to align technical solutions with business objectives.

SKILLS

- **Programming languages:** Oracle SQL, Python (Pandas, NumPy, Matplotlib, Seaborn), PL/SQL, Java;
- **Data Visualization & BI Tools:** Microsoft Power BI, Oracle Golden Gate (Replication tool with ETL capabilities), Microsoft Excel, SPSS;
- **Other:** Cross Functional Collaboration (JIRA, Git), Data Manipulation, Data Mapping, Replication, Data Modeling, Relational Databases, Data Extraction, Statistics

PROFESSIONAL EXPERIENCE

Data Engineer   **Jun 2020 - Aug 2022**
NetCracker Technology, Ukraine
NetCracker Technology is a global software company headquartered in Waltham, Massachusetts, with over 10,000+ employees and $5 billion in revenue.

- Implemented cross-schema replication processes using SQL-based Data Mappings, Data Pump utilities, and Oracle GoldenGate for ETL operations, which helped to achieve data system consolidation, streamlined reporting, and enhanced data flow efficiency.
- Developed complex queries and executed database scripts to extract crucial performance metrics for data visualization in the Dashboard Monitoring System based on Grafana Technology, which finally reduced the problem-detection time
- Implemented data manipulation removal scripts, leveraging parallel execution techniques on large-scale tables; enhanced data quality by eliminating duplicate entries, resulting in more accurate data analysis and reporting.
- Collaborated across departments to inform decision-making and ensure streamlined workflow processes, supporting the development of operational best practices for reporting and analytics.

Data Engineer   **May 2013 - Apr 2017**
NetCracker Technology, Ukraine

- Optimized queries for calculating critical metrics in the jobs that run once a day and have a limited execution window, which are used in reports.
- Commended for identifying and fixing a data quality issue in the pre-production environment within 8 hours, preventing a critical release delay on the production server, and saving hundreds of thousands of dollars.
- Improved critical project reports by leveraging materialized views, resulting in a 30% reduction in execution time.
- Engineered an automated testing process for applying Data Mapping using CI and TestNG. Used YAML and XML to store testing parameters and configurations, which reduced manual testing efforts and improved product quality.

PROJECTS

Hypothesis A/B testing: https://github.com/TetianaKlitna/SPSS/blob/main/SPSSDrugSafety.pdf   **May 2024**
Conducted a comprehensive statistical analysis to evaluate the safety profile of a new drug compared to a placebo. Key findings include:

- No significant difference in side effect rates between drug and placebo groups (chi-square test, $p = 0.964$)
- Confirmed linear relationship between adverse effect count and treatment/control groups ($p = 0.436 > 0.05$)
- Established independence between adverse effect count and treatment groups (chi-square test, $p = 0.615$)
- Near independence between variables (Spearman's R = 0.001, $p = 0.941$)
- No significant age difference between groups (Mann-Whitney U test, $p = 0.257$)

Utilized various statistical methods including chi-square tests, deviation from linearity tests, and non-parametric tests. Ensured robust analysis through normality assessments using Kolmogorov-Smirnov, Shapiro-Wilk, Q-Q plots, and P-P plots. These findings, demonstrating an equivalent safety profile to placebo across diverse age groups, were pivotal in the drug approval process.

EDUCATION

- Master of Science (MS), Computer Science, Odesa State Polytechnic University, Ukraine
- Bachelor of Applied Science (B.A.Sc.), Applied Mathematics, Odesa State Polytechnic University, Ukraine

CERTIFICATES

- Data Analyst with Python, Datacamp, 2024
- Data Analyst in Microsoft Power BI, Datacamp, 2024
- AWS Certified Cloud Practitioner, 02/2024
- Tableau 2023 A-Z: Hands-On Tableau Training for Data Science, 2023
- Statistics for Data Science and Business Analysis, 2023