Elena Tsaregorodtseva

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SUMMARY

Detail-oriented data analyst with a strong background in economics and information systems. Proficient in deriving actionable insights from complex datasets using Python, SQL, advanced MS Excel, and BI tools. Experienced in leading cross-functional teams, optimizing processes, and implementing advanced data analysis techniques to diverse projects.

EXPERIENCE

PricewaterhouseCoopers (PwC)

Senior Audit Associate   *2015 - 2021*

- Implemented Alteryx data processing automation, reducing projects' duration by up to 16%
- Crafted Power BI dashboards to visualize key business metrics, saving up to 10% manual work
- Delivered 25+ data-driven reports to clients, highlighting issues and recommending improvements
- Identified and implemented improvements in audit methodologies, reducing costs by up to 45%
- Collaborated with stakeholders and cross-functional teams, ensuring timely, high-quality results
- Led training sessions on audit basics and advanced MS Excel, upskilling 20+ new joiners
- Achieved rapid career progression, advancing from Intern to Senior Audit Associate within 3 years

DATA PROJECTS

Analyzing Mobile Phone Plans to Maximize Profit (Link)

- Used Python to pull 475k+ rows and 25+ columns across 5 tables to compare 2 plans' profitability
- Performed A/B testing to statistically evaluate customer behavior and mobile plans' performance
- Recommended a marketing shift towards a plan with a 60.5% higher average monthly user profit

Telecom Operator Client Churn Prediction (Link)

- Utilized Python for data preprocessing and exploratory analysis, identifying key churn indicators
- Developed and optimized CatBoost and RandomForest classifiers using HalvingGridSearchCV
- Achieved 87.9% ROC AUC score, demonstrating strong churn prediction accuracy on the test set

Advanced SQL Analytics: Retail Sales and Customer Behavior Analysis (Link)

- Identified top-selling products along with the most common product combinations in transactions
- Transformed 2 datasets into a unified table using recursive CTEs and multiple JOIN operations
- Developed a comprehensive SQL script to automate the process of monthly report generation

EDUCATION

University of Washington, Michael G. Foster School of Business

Master of Science in Information Systems   *Expected 2024*

Saint Petersburg State University

Master's Degree in Economics: Accounting, Analysis and Audit   *2016*
Bachelor's Degree in Economics: Management   *2014*

SKILLS

Programming Languages	Python (matplotlib, numpy, pandas, scikit-learn, scipy), R, SQL
Others	Alteryx, ETL, Git, MS Excel, MS Power BI, Snowflake, Tableau