

# George Skartados

Data Analyst — SQL • Python • Forecasting • Business Intelligence  
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## Projects

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### Energy Demand Forecasting — Data Center Capacity Planning

GitHub

*Power BI, Data Analysis*

- Analyzed global data center energy consumption trends to model demand growth scenarios and assess operational capacity planning implications.
- Evaluated baseline vs. renewable adoption scenarios, quantifying potential 70% emissions reduction impact at 80% renewable penetration.
- Designed and delivered an interactive Power BI dashboard enabling regional energy usage comparison and supporting data-driven planning discussions.

### Credit Card Fraud Detection — Imbalanced Classification Modeling

GitHub

*Python (Random Forest, SVM, Logistic Regression, KNN)*

- Analyzed 284,807 transaction records (0.17% fraud rate) to identify patterns in highly imbalanced financial datasets.
- Developed and evaluated multiple classification models, with Random Forest achieving 90.6% F1-score to balance precision and recall.
- Assessed model performance using ROC curves, confusion matrices, and cost-based trade-offs aligned with risk management considerations.

### Solar Energy Forecasting — Time-Series Modeling & Reporting

GitHub

*Python (Prophet), Power BI*

- Cleaned and structured hourly solar generation data to remove outliers and improve forecast reliability.
- Built a 7-day forecasting model using Prophet to capture short-term production variability patterns.
- Delivered a Power BI dashboard comparing historical and forecasted output to support performance monitoring and reporting.

## Professional Virtual Experience

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### BCG X, Lloyds, Quantum, Tata

Remote

- Performed SQL-based customer and revenue analysis to support retention, marketing optimization, and risk assessment decisions.
- Defined and monitored KPIs including churn rate, campaign performance, and anomaly indicators through structured dashboards and analytical summaries.

## Technical Skills

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**Languages:** SQL, Python

**Tools:** Power BI, Excel, Git

## Certifications

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IBM Data Science Professional Certificate

IBM Data Analyst Professional Certificate

SQL Associate — DataCamp

## Languages

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Greek (Native)    English (Fluent)