

ALEKSANDR TROPIN

Data Scientist

📍 Tbilisi, Georgia. Open for relocation ✉️ amtropin@gmail.com ☎️ +995 551190053 🔗 aleksandr-tropin 🌐 am-tropin

Data Scientist with 5+ years of experience in Data Science field, and a strong mathematical background. Advanced knowledge of SQL and Tableau for preprocessing Big Data in GameDev and FinTech and building compelling visualisations. Expertise includes data manipulation, data analysis, data visualization, statistical analysis, as well as machine learning techniques using Python. Seeking a challenging role to apply data-driven insights for enhancing business efficiency, increasing customer satisfaction, and driving profitability.

SKILLS

Programming	Python, SQL (BigQuery, PostgreSQL)
Development	Tableau, Jupyter Notebook, Google Colab, git (GitHub, PyCharm), FastAPI, MLflow, CI/CD (GitHub Actions), unit testing (pytest, Codecov), Docker, GCP, Airflow, Zeppelin, Confluence, Jira, Asana
Frameworks & Packages	Keras, TensorFlow, XGBoost, PyTorch scikit-learn, SciPy, statsmodels, NumPy, pandas, Matplotlib, Seaborn, Plotly, cv2, re, NLTK, spaCy, geopandas, BeautifulSoup4
Techniques	Linear regression, Logistic regression, SVM, k-Nearest Neighbors (KNN), Decision trees, Ensemble methods, k-Means clustering, Hypothesis testing, Regexp, NLP, Neural networks (CNN), ARIMA
Languages	English (Upper Intermediate – B2), Russian (Native)

WORK EXPERIENCE

Playgendary

// Top-10 mobile game developer with 3B+ installs and 250M+ MAU

BI Engineer

SQL Tableau Python git Airflow

📍 Tbilisi, Georgia 📅 Nov. 2021 – Dec. 2022

- Increased income from Applovin (x5) and Unity sources (by 30%), evaluated the effectiveness of daily advertising purchases, and predicted user activity and payback by developing real-time updated reports for the marketing team.
- Reduced the cost of refreshing reports by 2,5 times by switching them to optimally collected extracts.

Tinkoff

// Fintech company and digital bank with 28M+ customers

Data Analyst (Scientist)

SQL Tableau

📍 Moscow, Russia 📅 Oct. 2017 – Oct. 2021

- Enhanced the speed, accuracy, and convenience of the Small and Medium Enterprises (SME) Compliance department by 1.5 times by optimizing rules, design, and data for the Anti-Fraud System, used for client control.
- Decreased the number of customers' publicly posted negative reviews by 50% over 2 months by generating reports to facilitate communication between the processing team and potentially dissatisfied clients.
- Cleared the flow of incoming clients by the dismissal of 20+ dubious partners based on SME acquisition report.
- Increased the efficiency of the SME Compliance department's leaders and reduced their planning time by 3 times by implementing automatic reports containing daily statistics of employees' activities.
- Improved 12 product metrics of SME clients' Client Experience by creating reports for the SME product team.

PROJECTS

European restaurants: Classification, Hypotheses & Recommender

📅 Jun. 2022 – Apr. 2023

- Visualized restaurant attributes and client preferences by countries and European subregions using **Tableau**;
- Built content-based recommender system based on a dataset of 1M+ restaurants using Jaccard metric from **SciPy**;
- Tested causal hypotheses for features and average user rating by countries using **Student's t-test** from **SciPy**;
- Classified UK restaurants by vegetarian feature using **scikit-learn's Random Forest Classifier** with accuracy of **95%**.

Price predicting for apartments in Poland

📅 Jan. 2023 – Jun. 2023

- Implemented an **XGBoost** model with MAPE error of **9%** to predict apartment prices based on location and construction parameters of 23K+ apartments; incorporated district info using **geopandas** and developed a RESTful API.

Time Series Forecasting for Solar Energy Generation in Germany

📅 Mar. 2023 – Apr. 2023

- Predicted weekly solar energy generation in Germany for 2021-2022 based on 2015-2020 data with mean absolute percentage error of **16%** using seasonal **ARIMA** model from **statsmodels**.

EDUCATION

DataCamp

// Online learning platform with data courses in Python and certification exams

Professional Data Scientist, Associate Data Engineer

📅 Oct. 2021 – Aug. 2023

Lomonosov Moscow State University

// #62 in the ranking of the World's Best Universities for Mathematics

Researcher (PhD Candidate) in Discrete Mathematics

📍 Moscow, Russia 📅 Oct. 2017 – Sep. 2021

Bachelor's & Master's degrees in Mathematics

📍 Moscow, Russia 📅 Sep. 2009 – Jun. 2014