

ALEXANDR KOTOV

Data Engineer



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<https://alexvines.github.io/>



About Me

Data Engineer with 5 years of experience working with data and analytics systems.

I'm specialized in Airflow-based ETL/ELT pipelines, LLM-powered data processing, and cost-efficient analytics systems.

EXPERTISE

- Python
- SQL
- Airflow
- BigQuery
- dbt
- PostgreSQL
- Linux (Ubuntu)
- Docker
- Git
- AWS

LANGUAGES

- Russian (Native)
- English (Fluent)
- Spanish (Intermediate)

EXPERIENCE

Data Analyst/Data Engineer

inDrive - Mexico

(Global ride-hailing platform)

2022- Pres.

Data Engineering:

- Built and maintain a self-hosted Airflow server managing end-to-end marketing ETL/ELT data pipelines with automated monitoring via Telegram/Slack alerts.
- Engineered data ingestion from diverse sources including REST APIs, web scraping, open-source datasets, and messaging platforms
- Designed and continuously optimize an LLM-based text classification system, improving accuracy from 75% to 97% through iterative model evaluation and prompt engineering. Reduced processing costs by 70% and cut processing time in half by tracking LLM market developments and migrating to more efficient models
- Created real-time competitive intelligence alerts and SML tracking system enabling business and product teams to monitor market positioning
- Built an anti-fraud Telegram bot that detects photo manipulation and metadata issues in branded vehicle images while simultaneously serving as a global data source for tracking and analyzing branded vehicles
- Built dbt transformation pipelines for marketing analytics, creating reusable models to track campaign performance across multiple channels and calculate standardized engagement metrics

Data Analytics:

- Optimized legacy BigQuery queries, reducing execution time and resource usage by 30%
- Analyzed data across multiple database systems (BigQuery, PostgreSQL, MySQL, Presto, SQLite) to support business decisions
- Built Tableau dashboards to visualize key metrics

Data Analyst

PIK - Moscow

(Russia's largest real estate developer)

2021 - 2022

Data Analytics:

- Analyzed data across multiple SQL databases (MSSQL, PostgreSQL, MySQL) and built Tableau dashboards for various business units.

Tableau Server Administration:

- Took full ownership of Tableau Server administration within months, replacing an external consulting company and independently managing infrastructure for 1500+ users.
- Managed end-to-end server operations including installation, configuration, site management, licensing, cross-server migrations, and access control.
- Developed a Python script to track user activity and automatically remove inactive users, reducing license spends by 30%.
- Automated administrative processes and deployed a Telegram notification system for proactive server monitoring.

Science teacher

Era of engineers - Moscow

2019-2020

Led robotics classes for 6-15 year-olds for 2 years, teaching Arduino programming, CAD, and electrical engineering while developing hands-on projects including plotters, walking robots, and smart devices.

EDUCATION

Bauman Moscow State Technical University, Moscow | 2014 - 2020

(BMSTU is one of Russia's top technical universities)

Aerospace Engineering

Specialty: Design of aviation and rocket engines

Department of plasma power installations

CERTIFICATES

Udacity

- Data Engineering with AWS

Coursera

- Applied Machine Learning in Python
- Introduction to Data Science in Python
- Using Python to Access Web Data
- Using Databases with Python
- Python Data Structures
- Applied Plotting, Charting & Data Representation in Python