Currently at Istanbul, Turkey
Willing to relocate, prepared for business trips

PAVEL SUKHIKH

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EMPLOYMENT

Head Of The Department	**JSC Russian Railways**	**Winter 2020 – Spring 2021**

- Implemented a series of investment projects for the reconstruction of boiler houses across the whole northwest region of Russia. The implementation of the project allowed to save 28 million rubles in total across all regions for the first 6 months.

Lead Engineer-Analyst	**JSC Russian Railways**	**Autumn 2019 – Winter 2020**

- Engaged in mathematical modeling of building heat supply processes. Successfully planned fuel consumption based on weather forecasts, as well as to check the actual fuel consumption at boiler houses and take timely measures to optimize work. Annual fuel savings for the first year after implementation were up to 7%.
- Developed and implemented a new form of reporting on consumption, fuel reserves and heat generation at boiler houses. The introduction of the new report led to the optimal provision of boiler rooms with fuel.
- Calculated the demand of buildings for thermal energy using a mathematical model and trained colleagues in all regional divisions of the company to work with it. This made it possible to automate calculations of the need for thermal energy and fuel, reduce labor costs and improve the quality of fuel supply planning.

Engineer-Analyst	**JSC Russian Railways**	**Summer 2013 – Autumn 2019**

- Extracted and analyzed data on the operation of about 200+ boiler houses located in the northwestern part of Russia. Thanks to my analysis of indicators of the operation of boiler houses like fuel consumption, heat production, energy consumption etc., our team was able to optimize the operation of the equipment and save up to 4% of fuel per year.
- Solved logistics tasks such as choosing the type of vehicle, determining fuel delivery routes to all these boiler houses. Implemented the new optimized version of the logistics system for the new 40 objects from scratch.

EDUCATION

Courses	**Summer 2021 - now**

- **Practicum. Data Scientist**. Python, SQL, EDA, Statistics, Machine Learning
- **Andrew Ng Coursera Machine Learning Course.** Octave/MATLAB, Machine Learning
- **Stepik.** SQL, Window Functions, Linux/bash Basics, Tableau Basics
- **K. V. Vorontsov Machine Learning Theory Course.** Expanded set of topics recommended by the RIAC ACM/IEEE Computing Curricula 2001 for the discipline "Machine Learning and Neural Networks"

University

	Saint Petersburg State Transport	
Saint Petersburg, Russia	**University**	**Autumn 2008 – May 2013**

- Specialist's Degree in Industrial Heat Power Engineering
- Studied: Linear Algebra; Calculus; Probability Theory; Statistics; Physics

TECHNICAL EXPERIENCE

Projects (github: https://github.com/radio-raheem)

- **Identification of patterns that determine the success of the game for the global online store selling computer games.** Identified the most promising gaming platforms and the most important criteria for choosing games by users. Python, Pandas, MatPlotLib, NumPy, Math, SciPy
- **Building a model that predicts the number of taxi orders for the next hour**. Created a model that predicts the number of taxi orders for the next hour with RMSE on a test sample of 45.92 with a given level of no more than 48. Pandas, NumPy, scikit-learn, MatPlotLib, Statsmodels, Light GBM
- **Churn forecasting**. Created a model that allows one to determine with a fairly high quality will the client leave the bank in the near future or not (the value of the F1 achieved on the test sample is 0.592, AUC-ROC is 0.851)

ADDITIONAL SKILLS AND EXPERIENCE

- English language – Professional working proficiency
- Russian language – Native

Languages and Technologies

Python, SQL, Octave/MATLAB, bash, Pandas, NumPy, scikit-learn, ScyPy, statsmodels, MatPlotLib, Seaborn, PyTorch, LightGBM, CatBoost, Docker, Tableau, PySpark, Git, Jupyter Notebook