LITVINOV SERGEY

DATA SCIENTIST

PERSONAL PROFILE

I have physical background in geophysics, mainly tied with time series and signal processing. All of that led me to data science and programming in which i'm trying to actively develop myself to become a good specialist in that area

To me the most essential feature is constant learning

WORK EXPERIENCE

Senior Geophysicist

GeoPrime | April 2017 - present

- Seismic data analysis
- Signal processing
- Adaptive noise attenuation
- Image data processing
- Project management

EDUCATIONAL HISTORY

BSc. Geology, M.V. Lomonosov Moscow State University, Moscow

Sep 2013 - June 2016

MSc. Seismometry and geoacoustics, M.V. Lomonosov Moscow State University, Moscow

Sep 2016 - June 2018

Yandex.Praktikum profession "Data Science Specialist"

May 2020 - March 2021

Additional coarses:

- Introduction to Git and GitHub (Coursera)
- Introduction to Machine Learning for Geophysical Applications
- Neural Networks and Deep Learning (Coursera)
- Improving Deep Neural Networks (Coursera)
- Hyperparameter Tuning, Regularization and Optimization (Coursera)
- Structuring Machine Learning Projects (Coursera)

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Moscow, Russia

SKILLS SUMMARY

- Project Management

- Python (NumPy, Pandas, Matplotlib, Scipy, Scikit-learn, PyTorch, OpenCV)
- Data visualization and analysis
- SQL
- Docker
- Git and Version Control

- Working with various types of machine learning problems: classification, regression, time series forecasting, text classification

- Working with deep learning problems: computer vision object classification, segmentation, neural style transfer, detection

PROJECTS github.com/LtvnSergey

Image segmentation - Pleural-Effusion-Detection

- Detect and make segmentation mask for pleural effusion based on MRI scans of human lungs
- Preprocess data
- Train UNet
- Check results with Tensorboard

Object detection - Dog-Image-Classification

- Classify dog breed from on th image
- Train ResNet
- Build Flask app
- Create docker image
- Create telegram bot

Image-to-Image style transfer - CycleGAN-Photo-to-MonetPublic

- Convert photo images to Monet-like painting
- Train CycleGAN model
- Create web app using Gradio
- Create docker image

Machine learning projects:

***Client Departure Prediction - Telecom** - Classification type problem*

- Predicting client departure based on personal data, contract and tariff

***Age Determination from Image** - Neural Network Regression type problem*

- Determining age from a photograph

***Toxic Comments Detection - Text** Classification type problem*

- Classification of comments as positive and negative

***Time Series Prediction** - Time Series Regression type problem*

- To attract more drivers during peak periods, predict the number of taxi orders for the next hour

***Car Cost Prediction** - Regression type problem*

- Determine cost of car based on technical characteristics, equipment and prices of cars

***Client Departure Prediction - Bank** - Classification on unbalanced data type problem*

- redict whether the client will leave the bank in the near future or not

***Best Drilling Spot Prediction** - Classification type problem*

- Decide where to drill the new well, based on data from 3 regions

***Gold Recovery Rate Prediction** - Regression type problem*

- Predicting recovery rate of gold from a gold-bearing ore