Data science portfolio

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Additional practical/learning activities complementing professional experience

November 2022 - May 2023, karpov.courses

Hard ML: intensive professional development for mid/senior level professionals

Modules:
Ranking & matching, dynamic pricing, advanced A/B testing, uplift modelling, deployment of ML services

Five practical two-weeks projects: code and documentation on GitHub

January - May 2021, Higher School of Economics, Moscow

Advanced Machine Learning Specialisation

Modules:
Introduction to deep learning, natural language processing, bayesian methods for machine learning, addressing large hadron collider challenges, how to win a data science competition

Projects:

- Multiple sales prediction: GitHub; 78th place out of about 12 000 teams on Kaggle
- Other projects: Facial composites (bayesian optimization of a similarity function between a person's face inwitness's memory and a face, reconstructed from the current point of latent space of a variational autoencoder), Image captioning (an ensemble of vision deep learning CNN and language generating RNN), StackOverflow assistant bot

January - June 2019, May - June 2020, July 2021, Yandex & Moscow Institute of Physics and Technoogy

Machine Learning and Data Analysis

Modules:
Math and optimisation, machine learning, statistics for data science, practical data analysis

Final projects:

- Identification of a specific user by tracking logs of attended Web pages: GitHub; 10th place out of about 4 700 teams on Kaggle
- Customer churn prediction on blind data of a telecommunication company
- New York taxi multiple forecasting: dashboard, GitHub

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Other activities

Courses:

ML Simulator (in progress), karpov.courses
Deep Learning Specialization, Deep Learning.AI
NLP with Attention Models, NLP with Sequence Models, Deep Learning.AI
TensorFlow: Advanced Techniques Specialization, Deep Learning.AI
Practical Data Science on the AWS Cloud Specialization, Deep Learning.AI, AWS
Big Data Processing, Machine Learning on Big Data, Higher School of Economics, Moscow
Intermediate Python, Udacity
Databases and SQL for Data Science with Python, IBM

Books:
Probabilistic Machine Learning: an Introduction, Kevin P. Murphy; The Elements of Statistical Learning, Hastie, Tibshirani, Friedman (1/2); ML Handbook + Lectures, Yandex; Designing Machine Learning Systems, Chip Huyen (in progress); d2l.ai (some advanced chapters); lots of articles and blog posts