EVDOKIMOV EGOR

4th Year Student of MIPT DIHT

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PROJECTS

MachineLearning labs – link
python, numpy, sklearn, pytorch, keras

September 2021 – January 2021

- Completed main algorithms such as kNN, SVM, linear regression.
- Implemented full decision tree class.
- Implemented nn layers, functions activation, batch norm and dropout layers.
- Implemented rnn and lstm(using pytorch) for poem generation as Shakespeare.
- Built and trained cnn(on-base pretrained vgg16) to classify 50 breeds of dogs, was used big(8000 photos) dataset and final accuracy composes 0.82.
- Used ensemble, lstm and cnn for fraud transaction detection.
- Used pretrained gpt2 for text generation.

DataAnalysis tasks – link
python, scipy, numpy, pandas, plotly, sklearn

February 2021 – May 2021

- Research of the popularity of YouTube videos, the growth of activity on Netflix, categorical dependencies of views with conclusions and graphics.
- Analysis of vacancies by ML, DA, CV from 'HeadHunter', search for the most paid skills, competitive abilities of companies.
- Predicting the demand for bicycle rental using sklearn. A simple Bayesian spam classifier.

Algorithms and Data structures – link
c++

September 2019 – December 2020

- Developed basic algorithms on graphs(Dijkstra, Ford-Bellman, MST, Ford-Fulkerson) and strings(Zeta-Prefix functions, Suffix Array and Tree, Kasai, Ukkonen's) and trees(BSD, Cartesian, AVL, segment) including Huffman algorithm and computational geometry, 3d convex hull.
- BigInteger and Rational classes. Class of geometric figures with some algorithms of finding wonderful points. Encapsulation, Inheritance and Polymorphism In C++.

SmartDict – link
python, flask, sqlite, html

April 2020 – May 2020

- Developed a usefull small web app for fast reading texts on foreign languages via Google Translate API and SQLite database.

WORK EXPERIENCE

Yandex, Web Search Engine
Analyst

November 2021 – May 2022

Worked on the analytics of search results, fine-tuned model to predict the proximity of queries by embeddings.
Created metrics, set up pipeline for crowdsourcing data markup for ML model training, increased quality from 30 to 80%.

Tinkoff, Laboratory of financial technologies
ML/CV engineer

February 2022 – June 2022

Worked in project to find celebrities with a similar face and create inexpensive advertising using SberSwap, SimSwap. Used models for image segmentation to improve the quality of face overlay and models to improve the quality of images.

COURSES

- ML, Intro to DS, Optimization, ACOS, Algorithms, OOP, DB(MIPT)
- Modern Applied Statistics, Python(YSDA)
- Specialization in ML(Coursera) – link

EDUCATION

Moscow Institute of Physics and Technology, Department of Innovation and High Technology
Student

September 2019 – May 2023   Per : 8.7/10.0

ACHIEVEMENTS

- 100 points state exam in math and physics, diplomas of the olympiads in math   2019
- Admission to the Yandex Data Analysis Department   2021

SKILLS

C++   Python   Git   Algorithms
SQL