DMITRII MASNYI

23 YEARS OLD
MASTER'S DEGREE STUDENT

CONTACTS

Dmitrii.Masnyi@skoltech.ru

dmasny@yandex.ru

dmasny99@icloud.com

mity9994@gmail.com

+7(977)878-12-28

Telegram: @dmasny

https://github.com/dmasny99

RESEARCH INTERESTS

Digital signal processing, Medical data analysis (mostly EEG signals), Sound processing based on machine learning techniques, Machine Learning

EDUCATION

BACHELOR
BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY, MOSCOW

09.2017 — 06.2021

Department of Robotics and Complex Automation. Specialization: Computer Systems of Automated Manufacture. Thesis topic: Fog Computing-based Control System of the Warehouse as Part of a Flexible Manufacturing System. Result: developed and implemented a control system that integrates the warehouse into the existing flexible manufacturing system at the university laboratory of IIoT. Diploma with honors, average score of the transcript is 4.89/5.0

MASTER STUDY
SKOLTECH, MOSCOW

09.2021 — NOW

First year master student at Internet of Things and Wireless Technologies track, Skoltech.

AVITO ANALYTICS ACADEMY
AVITO, MOSCOW

09.2021 — 12.2021

Student of Avito Analytics Academy. Studying courses: Python programming, SQL and Data Bases, Applied Statistics.

INDUSTRIAL EXPERIENCE

INTERN
URALTRUBPROM URAL PIPE WORKS, JCS
DEPARTMENT OF INDUSTRIAL AUTOMATION, YEKATERINBURG

06.2020 — 08.2020

Results: Developed a program module for data transmission from Raspberry Pi to the PLC of the milling machine. Stack: Python 3, MQTT.

JUNIOR DEVELOPER
DEPARTMENT OF ABRASIVE MATERIALS
3M COMPANY, MOSCOW

06.2021 – 09.2021

Results: developed a client-server application for automated abrasive solution selection based on client survey. Stack: Python 3, Kivy, SQlite.

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SKILLS

- **Python** (OOP + numpy, pandas, scipy, sklearn, librosa, mne, tensorflow 2 basics, pytorch basics)
- C**#** (windows form)
- **Machine Learning** (classical algorythms)
- **Deep learning** (basics)
- **SQL** (window's functions included)

ACHIEVEMENTS

04.2019

I won first place in the 47th Students Olympiad Of Applied Mechanics among the universities of Moscow and Moscow region in the team competition.

05.2021

I became a winner of the 4th season of the All-Russian Student Olympiad "I am Professional" in the 2020/2021 academic year in the bachelor category in the section "Internet of Things and Cyber-physical systems". I developed a Telegram chat-bot for managing the monitoring system of key health indicators of miners. Stack: Rightech IoT Cloud, Python 3, SQLite, Telegram API.

10.2021

As a part of KPM team I won the 'One More hackaton' organised by Sber risk's modeling research. We developed a model for the probability of the late first payment of the morgage. Our solution improved ROC_AUC of the scoring model by 0.08 points.

COURSES

DIVE IN PYTHON

COURSERA

01.2021 – 01.2021

Studied decorators, asynchronous programming tools (asyncio). Developed 6 toy-projects during this course. Final project – developed a client-server application for metrics transmission and storing.

MACHINE LEARING FOUNDATIONS

TECHNOPARK MAIL.RU (NOW TECHNOPARK VK)

02.2021 – 06.2021

Familiar with Pandas, Numpy. Studied algorithms for classification tasks (Naïve Bayes, KNN, LogReg), regression tasks (OLS, Gradient descent, SGD). Familiar with ensemble models, PCA, DBSCAN, NLP (TFIDF), recommender systems (content based, cooccurrence, clustering). Final project – sales prediction of the feature phones in the Megafone sales salons in Moscow. Stack: Geopandas, OSM, Folium.

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PROJECTS

NSENSE

09.2021 – 10.2021

Me and my team developed a device for non-invasive kidney failure diagnostics based on ammonia detection in human breath. We conducted first tests on some patients from S.S. Yudin hospital.

SOUND EMOTION RECOGNITION

01 .2022 – NOW

I work on machine learning model for emotion recognition in sounds based on physical interpretable features. This model will allow doctors to choose audio tracks for passive influence on children during EEG recording. It is important for the ASD detection.