

Ivan Kramoykin

DATA-SCIENTIST

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Work experience

Design Engineer

July 2021 - August 2021

Design bureau

Job duties - Computer modelling of physical processes

Achievements

- Implemented computer model of electromagnetic field time-space distribution (magnetic field parameters were calculated numerically for parametrized discrete grid in several layers of cross-sections in three dimensions)

Tools: Python: MagPyLib, matplotlib; YAML; bash-scripts; OpenEMS

Repo: <https://github.com/Kramoykin/Magnetic-Field>

Education

Bachelor of Nuclear Physics and Technologies

2017 - 2021

Tomsk Polytechnic University

Final paper - Modelling electromagnetic shower deposited in NA64 CERN lead-scintillator calorimeter

Academic achievements

- Being a part of the research group TPU/NA64 CERN I was engaged in data-processing software development in the framework of pipeline principle in C++ (classes implementing mathematical, statistical and visualization operations on the processing data structure were added to the processing chain), also there were created Monte-Carlo models of radiation transmission and Poisson events superposition;

Tools: C++; Root CERN; Wolfram Mathematica; Docker; bash-scripts; gnuplot; YAML

- Awardee of the 'Proriv' TPU contest in Nuclear Physics and Technologies;
- Exploring newest science papers/documentation in English.

Master in Big Data Solutions

2021 - present time

Tomsk Polytechnic University

Academic achievements

- Collective coursework on predictive analysis in Python (data preparation, data visualization, Random Forest and Logistic Regression models, hyperparameters tuning and ML results analysis were my responsibilities).

Tools: Python: numpy, Pandas, matplotlib, seaborn, sklearn

Repo: <https://github.com/Kramoykin/Collective>

Key Competencies

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| <ul style="list-style-type: none">• Python, SQL, C++• Data analysis libraries (Pandas, NumPy, Sklearn, SciPy, Root CERN)• OS Linux, bash | <ul style="list-style-type: none">• Level of English – B2 (upper-intermediate)• Statistical analysis• Data processing and data analysis in research group |
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