

# MAKSIM KIRYAKIN

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## EDUCATION

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**Lomonosov Moscow State University (Master's degree)**

September 2024 - Present

Faculty of Computational Mathematics and Cybernetics.

**Lomonosov Moscow State University (Bachelor's degree)**

September 2020 - June 2024

Faculty of Computational Mathematics and Cybernetics (*Average grade: 4.3*).

## WORK EXPERIENCE

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**Sber**

May 2024 - Present (1 year)

Data Scientist in Investment Expertise Directorate (Finance Division)

- Developed and implemented a customer clustering model (120+ million users) using ML/DL models.
- Conducted R&D research as part of implementing a new metric for the Bank.
- Performed calculation of the Bank's product NPV using machine learning and econometric models.
- Brought the product NPV calculation model into the Bank's production environment and supported/maintained it.
- Stack: Python (PySpark, Pandas, Scikit-learn), PyTorch, SQL, Git, Excel, Hive.

**Sber**

August 2023 - March 2024 (6 months)

Intern in balance sheet structure department (Finance Division)

- Worked on refactoring code of existing Python prototypes. Implemented a pre-trained ML model that improved target variable prediction quality by 30%.
- Increased calculation speed by 3 times by optimizing the main loop of Python prototype.
- Automated extraction and processing of large data volumes from HDFS using Python.
- Stack: Python (PySpark, Pandas, Scikit-learn), SQL, Excel, Hive.

## SKILLS

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**Programming Languages:** Python (Pandas, NumPy, SciPy, PyTorch, Pyspark), SQL, C/C++

**Tools:** Git, Excel.

## COURSES

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- Professional development program from «New Professions Lab»: «Apache Spark for data analysis tasks». [Certificate \(with honors\)](#)
- Professional development program from «Sber University»: «Methods of data analysis and machine learning». [Certificate \(with honors\)](#)
- Professional development program from «Sirius University»: «Matrix methods and modeling in life and Earth sciences». [Certificate](#)
- University special courses from «Vega Institute» Foundation: «Introduction to financial mathematics» and «Financial econometrics».
- University special course from «Deutsche Bank Technology Center»: «Mathematical models in investment banks».