ANDREI RYKOV

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PROFILE

I'm a PhD candidate, data science engineer and machine learning research enthusiast with 3 years of research experience and 2+ years of production Python programming. My research interests are cluster analysis, representation learning, and deep learning in general.

EXPERIENCE

Data Science Engineer 07/2025 - present
Huawei *St. Petersburg, RU*

- R&D tasks in the domain of LLM.

Data Science Engineer 11/2023 - 07/2025
Baum [Website] *Moscow, RU*

- Implemented essential data analysis and machine learning algorithms for the no-code platform Razum AI using Python, PySpark and Tensorflow.
- Lead the data science development team for the educational version of the platform - Razum AI EDU, projecting the architecture for the data analysis tools.
- Provided consultation for several cases of platform integration combined with a solution for consumers's data analysis tasks (text summarization and predictive analytics).

SKILLS

Data Management	PySpark, SQL, Neo4j, MongoDB
Data Visualization & Interpretation	Matplotlib, Seaborn, Plotly (Dash), Shapley
Machine Learning and Data Mining	Sci-Kit Learn, natasha, nltk, SparkNLP
Deep Learning	PyTorch, TensorFlow
Project & Task Management	RedMine, Git, Flowchart & Schematic projecting
Languages	English (Advanced), German (Beginner), Russian (Native)

EDUCATION

Ph.D in Machine Learning and AI, ITMO University 2024 - present
Research Topic: Ordered Representation Learning
(Academic Advisor: Ph.D. Sergey Muravyov)

Master of Science in Data Science and AI, Eindhoven University of Technology (TU/e) 2021 - 2023
Graduation Thesis: Robust Deep Spectral Clustering
(Academic Advisor: Dr. Sibylle Hess, Grade: 8/10)

Bachelor in Business Informatics, Higher School Of Economics, Moscow 2017 - 2021
Graduation Thesis: Application of Anomalous Clustering Methods for Determination of the Number of Clusters
(Academic Advisor: Prof. Boris Mirkin, Grade: 9/10)

PUBLICATIONS & PROJECTS

Publication Rykov, A., De Amorim, R. C., Makarenkov, V., & Mirkin, B. (2024). Inertia-based indices to determine the number of clusters in K-means: an experimental evaluation. IEEE Access. [Link]

MirCl A small Python package was developed on top of the code for the bachelor thesis and further research related to clustering and the optimal choice of clusters. The package is planned to be edited to make the process of clustering easier and more informative. [GitHub]