ANDREI RYKOV

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OBJECTIVE

Data Science & AI graduate with research experience, seeking full-time research-oriented role in data science and machine learning. My research interest are cluster analysis, representation learning and deep learning in general.

EXPERIENCE

Data Analyst November 2023 - now
BAUM [Website] *Moscow, RU*

- Implemented of data analysis algorithms for no-code platform Razum AI, writing tests for pipeline behavior
- Projected education version of platform for children, prepared educational cases
- Provided consultation for several cases of platform integration combined with solution of consumer's data analysis tasks

Intern Jul 2020
LIIS Engineering Systems [Website] *St Petersburg, RU*

- Prepared comparative survey about various mobile applications for charging e-cars.
- Developed technical documentation with preliminary recommendations for new platform.

SKILLS

Data Analysis	NumPy, SciPy, Pandas
Data Visualization & Interpretation	Matplotlib, Seaborn, Plotly, Dash, Shapley
Machine Learning and Data Mining	Sci-Kit Learn, natasha, nltk
Deep Learning	PyTorch, TensorFlow
Data Management	PySpark, SQL (Transact-SQL), Neo4j, MongoDB
Programming Languages	Python
Techniques	Cluster Analysis, Predictive Analytics, Data Modeling
Languages	English (Advanced), German (Beginner), Russian (Native)
Project Management	RedMine, GitLab, Flowchart & Schematic projecting

EDUCATION

Master of Science in Data Science and AI, Eindhoven University of Technology (TU/e) 2021-2023
Graduation Thesis: Robust Deep Spectral Clustering
(Supervisor: 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
(Supervisor: 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]

Conference Rykov, A., Hess, S. (2023). Robust Deep Spectral Clustering. BNAIC BeNeLearn 2023, Type D: Student Thesis Abstracts [Link]

MirCl Small python package was developed on top of the code for the bachelor thesis and further research related with clustering and optimal choice of number of clusters. Package is planned to be edited to make a process of clustering easier and more informative. [GitHub]