

# ARTEM VOLGIN

Data Scientist

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## SUMMARY

- Data Scientist with diverse experience working with large-scale behavioural and financial data in marketing research, non-profit sector, and academia.
- Proficient in presenting results to a broad audience and working with various stakeholders.
- A passionate participant in data science competitions.

## SKILLS

**Toolkit:** Python (pandas, numpy, scikit-learn, xgboost, seaborn, beautifulsoup, pytorch, huggingface, spacy, nltk, statsmodels, networkx), R (dplyr, ggplot2, brms, igraph), SQL, MongoDB, Spark, Docker, AWS, Tableau, Git

**Expertise:** Machine Learning, NLP, Causal Inference, Bayesian Statistics, Spatial and Network Analysis

**Languages:** English - fluent, Russian - native

## EXPERIENCE

- 9/2021 – 6/2024    **Graduate Researcher**    **University of Manchester, UK**
- Implemented a pipeline using Large Language Models (LLMs) for named entity recognition and relation extraction from documents related to corruption incidents.
  - Analysed the influence of private companies on educational institutions using advanced network simulations and hierarchical Bayesian models in combination with a large company database.
  - Examined the effect of the war on migration patterns using unique time-series web search data.
  - Led seminars on Introduction to Statistics and Network Analysis for over 100 students.
  - Presented my research at multiple conferences and published several papers.
- 2/2022 – 9/2022    **Graduate Researcher**    **University of Oxford, UK**
- Scrapped, matched, and deduplicated genealogical profiles and financial records from different sources.
  - Created a pipeline for classifying ethnicity and gender based on individuals' names.
  - Extracted educational and career trajectories from text with pre-trained deep learning NLP models.
- 5/2019 – 5/2021    **Data Scientist**    **The World Bank, Russia**
- Developed a novel approach for calculating the value of skills acquired from universities, utilizing supervised machine learning methods and named entity deduplication on extensive resume datasets.
  - Evaluated the accessibility of extracurricular education organisations by applying methods from spatial statistics based on linked data from different administrative sources.
  - Constructed and maintained a database with financial indicators of educational organizations.
  - Estimated financial returns to education using causal inference techniques based on the panel data.
  - Delivered presentations of my work to various internal and external non-technical stakeholders.
- 1/2016 – 5/2019    **Senior Data Analyst**    **Russian Public Opinion Research Center, Russia**
- Contributed to over 30 projects for marketing companies and nonprofit organizations.
  - Conducted analysis of survey data using statistical techniques: weighting, clustering, PCA.
  - Worked directly with clients to design and implement market research that meets their objectives.
  - Organised and delivered training for interns and junior colleagues.

## EDUCATION

- 9/2021 – 6/2024    **PhD Social Statistics**    **University of Manchester, UK**
- 9/2018 – 6/2020    **MS Applied Statistics**    **Higher School of Economics, Russia**
- 9/2011 – 6/2015    **BA Social Sciences**    **Russian State University for the Humanities, Russia**

## DATA SCIENCE COMPETITIONS

- 2023    **Unsupervised Wisdom by CDC** – 1st place 25,000\$  
Applied LLMs in combination with an SVM classifier to label a large dataset of medical texts.
- 2020    **COVID-19 Symptom Data Challenge by Facebook** – 2nd place 30,000\$  
Analysed the impact of COVID-19 policy with a causal time-series model on a 10 million Facebook survey.
- 2020    **Unlocking Climate Solutions by CDP** – 2nd place 25,000\$  
Created a method for analysis of environmental reports and surveys of managers with data envelopment analysis, association rules mining, and topic modelling.
- 2019    **Environmental Insights Explorer by Google** – 1st place 10,000\$  
Developed a method to estimate the region's annual emissions factor using remote sensing data emissions, weather conditions, and OpenStreetMap information using spatial-temporal models.