

# Madina TUSSUPOVA

## Data Scientist

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Location: Brussels, Belgium | Citizenship: Kazakhstan | Visa sponsorship needed

## EXPERIENCE

### Data Scientist

Dec 2019 – Present

ENGIE IT

Brussels, Belgium

- Predicted building occupation using CatBoost algorithm with 13.19 RMSE for next 3 days. Optimized costs of restaurant services by 15%
- Predicted event attendance using XGBoost algorithm with 85% mean cross-validation score.
- Clustered free-form customer feedback using natural language processing (NLP) techniques in order to quickly understand users' greatest concerns using k-means algorithm and Linear Regression Classification with 0.988 macro-averaged AUC. It increased customer satisfaction by 10%
- Speaker at several Data4All Internal events on "Natural Language Processing" (95 participants), "Advanced Clustering" (175 participants) topics and speaker at Q&A session for ENGIE "Questions Digitales: Machine Learning" internal event (295 participants)

### Business Analyst Intern

Apr 2019 – Oct 2019

ENGIE IT

Brussels, Belgium

- Optimized monthly Excel report using Power BI and connecting directly to the source, reduced work of 2 employees by 16 hours per month. Moved to production. Number of users: 10
- Participated in internal Data Science challenge: Reinforcement learning for solar energy management – 5th place. Award: 250 euros
- Promoted to a full-time position

## EDUCATION

### l'Ecole internationale des Sciences du Traitement de l'Information

Cergy, France

Master of Science in Decisional Systems

Sep 2018 - Nov 2019

- GPA: 3.7/4.0 - Top 1% of the class
- Erasmus Mundus Double Degree Diploma Scholarship and Stipend

### Novosibirsk State University

Novosibirsk, Russia

Master of Science in Applied Mathematics

Sep 2017 - Jun 2019

- GPA: 3.3/4.0 - Top 5% of the class
- Shanghai Cooperation Organization Scholarship and Stipend

### LN Gumilyov Eurasian National University

Nur-Sultan, Kazakhstan

Bachelor of Technology in Applied Mathematics

Sep 2013 - Jun 2017

- GPA: 3.8/4.0 - Top 1% of the class
- Diploma with Honours
- Governmental Scholarship and Increased Stipend

## COMMUNITY & LEADERSHIP

### Data Science Challenges

Nov 2021 – Present

Internal company club

ENGIE Group

- Organised two data science challenges
- Created pipeline for the next 2 years

## TECHNICAL SKILLS

**Languages:** python, sql, R, scala, C++

**Libraries:** Python (eg. scikit-learn, nltk, word2vec, tensorflow, keras, pyspark, pandas, numpy)

**Big Data & Machine Learning:** Spark, Azure, Databricks, AWS, Palantir

**Data Science:** Data science pipeline, Statistics, Time series, Experimental design, Hypothesis testing