

# Dilbar Isakova

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## EDUCATION

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### Big Data Management and Analytics Erasmus Mundus Joint Master Degree (BDMA):

M2: CentraleSupélec - Université Paris-Saclay Sep 2024 - Present Paris, France  
M1: Universitat Politècnica de Catalunya Feb 2024 - June 2023 Barcelona, Spain  
M1: Université libre de Bruxelles Sep 2023 - Feb 2024 Brussels, Belgium

Recipient of a prestigious Erasmus Mundus scholarship with a highly competitive **4% Admission rate**.

**Bachelor of Information Systems** Aug 2018 - May 2022  
KIMEP University, GPA: 4.14/4.33, Top 5% of the class Almaty, Kazakhstan

## PROJECTS

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**Using Autoencoders and Variational Autoencoder for Facial Verification** Sept. 2024 - Present  
Big Data Research, Supervisor: [Alexandre Fournier Montgieur](#) Paris, France

- Aimed to design and train the Autoencoder and Variational Autoencoder models on the CASIA dataset for facial verification.
- Completed Resnet18 training using the Arcface loss and create a CNN model from scratch to perform a face verification task using CASIA dataset.

**AmiGo Social App at UPC** Apr. 2024 - June. 2024  
Big Data Management, Supervisor: [Sergi Nadal](#) Barcelona, Spain

- Engineered ETL pipeline using PySpark and managed data consistency and accessibility with Delta Lake.
- Developed personalized event and nearby places recommendation algorithms via Apache Spark.
- Implemented real-time data stream processing with Apache Kafka to utilize trained models for immediate predictive analytics and user recommendations.
- Developed interactive Tableau dashboards and conducted SQL queries in Databricks to analyze user engagement statistics and performance indicators.

**Anomaly Detection for SNCB Train Data** Sep. 2023 - Dec. 2023  
Data Mining, Supervisor: [Mahmoud Sakr](#) Brussels, Belgium

- Implemented pre-processing pipeline by KNN for geographical data and by interpolation for numerical data.
- Built ensemble algorithm by K-means, SVM one-class and isolation forest.
- Developed dashboard for stream data analysis using Tableau.

## EXPERIENCE

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**Data Science Intern** Feb. 2023 - Sept. 2023  
[KOTRA](#) (Korea Trade Promotion Corporation) Tashkent, Uzbekistan

- Employed predictive analytics with Python (Pandas, Scikit-Learn) to pinpoint potential Uzbek buyers for Korean companies, increasing B2B engagement by utilizing data from CRM systems, industry reports, and specific data provided by headquarters.
- Developed 9+ dashboards in Tableau to visualize event data which helped to plan and execute major events (regional Korean-Uzbek conferences and exhibitions) with improved attendee targeting and engagement metrics.
- Managed data preprocessing, model training with logistic regression and decision trees.

**Research Assistant** Jan. 2022 - Sept 2022  
[KIMEP University](#) Almaty, Kazakhstan

- Implemented data entry, data cleaning and producing figures in R and Excel.
- Succeeded in performing advanced statistical analysis, NLP and SNA using Python and R.
- Manipulated data subsets using SQL

## SKILLS

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**Data Analysis and Visualization:** Pandas, Spark, NumPy, Scikit-learn, Tableau

**Data, AI and ML:** SQL, PostgreSQL, MongoDB, Neo4j, Hadoop, Spark, PyTorch, TensorFlow

**Programming:** Python, Swift with SwiftUI, JavaScript, HTML, CSS