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# Mansur Nurmukhambetov

Junior Data Scientist

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Data scientist with three years of experience: I participate in Kaggle competitions and hackathons to challenge myself. I presented my work at "RuCode 5.0", "Jas Talents", "Hackday 2020" and received funding for my projects. Fun fact: last nine years I devoted to mastering card tricks. Always prepare a routine for team buildings and conferences, and can amaze you also with some magic.

## EDUCATION

**Bachelor of Science in Artificial Intelligence**, *University of Groningen*

Graduating June 2024

## TECHNICAL EXPERIENCE

### Yandex Practicum (Bootcamp)

Feb 2022 — Present

Data Science

7 months

*Python 3, Jupyter Notebook, Keras, Scikit-learn, Pandas, Matplotlib, Catboost, SQL, GitHub*

- Developed multiple data preprocessing pipelines in Python 3 using pandas and numpy, visualized data with matplotlib and analyzed it using scikit learn.
- In addition, trained machine learning models like decision trees, random forests and regression models and chose the most suitable for the task.

### Projects

#### 1. Oil region revenue prediction

Decided in which region to extract oil. Built a machine learning model that helped determine the region where mining will bring the most profit with the least risk of loss. Analyzed possible profits and risks using the Bootstrap technique.

#### 2. Gold recovery prediction

Developed a model predicting the recovery rate of gold from gold ore. The model helped to optimize production in order not to launch a plant with unprofitable characteristics. Performace was measured with cross validation.

#### 3. Customer churn prediction

Analysis of the outflow of clients from the bank to select a strategy (retaining old clients or attracting new clients). Trained multiple machine learning models on differently balanced datasets. Compared their performace using F1 and ROC-AUC scores.

### Personal projects

Nov 2019 — Jan 2022

Machine learning engineer/ Web developer

2 years

*Tensorflow, Keras, Node.js, Tensorflow.js, React.js, HTML, CSS, Javascript, GitHub*

- Added a predictive phone search feature and QR code payments which decreased time spent in the app based on A/B testing.
- Built a highly available, responsive website (Node.js, HTML, CSS, Heroku) with a database to store customer data (Firebase).
- Analyzed customer data and developed an algorithm that found the most profitable and satisfiable prices.
- Curated the collection of a dataset of more than 5000 images with classification labels.
- Trained and fine-tuned a MobileNet classifier with Tensorflow to classify cutlery and clothes.
- Developed an accessible for visually impaired, downloadable progressive web application with a MobileNet model (TF.js).
- Presented projects and their values in 3 minute pitch videos that won funding from multiple competitions.

### Projects

#### 1. Potato Cashback

Web based loyalty program aimed on small grocery stores. It collects data about customer purchases and sends special bonus offers to them. The owner can see and analyze customer data.

#### 2. Orama Visual Assistant

A progressive web app for visually impaired people that announces objects detected using user's phone camera.

#### 3. Soft Skills AI

Telegram bot that simulates work situations to help HR select people for customer support. GPT-3, from OpenAI, generates text scenarios based on our predefined prompts.

## CERTIFICATES

**freeCodeCamp**, *JavaScript Algorithms and Data Structures*

Jul 2021

**Coursera, deeplearning.ai**, *Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization*

Oct 2020

**Coursera, deeplearning.ai**, *Neural Networks and Deep Learning*

Aug 2020

## SKILLS

<b>Data science:</b>	Python, Pandas, Numpy, Matplotlib, SciPy, Scikit-learn, Tensorflow, Keras
<b>Tech experience:</b>	Python, SQL, Firebase, Git, Github, Node.js, React.js, HTML, CSS, <del>TeX</del> , Markdown
<b>Languages:</b>	English (Fluent), Russian (Native), Kazakh (Native), Dutch (Beginning speaker)
<b>Activities and hobbies:</b>	Magic, jogging, food and experimental cooking