

# MATÚŠ KOŠÍK | RESUME

## PROFILE

### Machine Learning Developer, Data Scientist, Data Engineer, Data Analyst

I develop End-to-End Machine Learning solutions, perform statistical analysis and econometric modelling. I engage in every step of the Machine Learning lifecycle, e.g. business understanding, data wrangling, model training, deployment, etc. I am able to work without close supervision and collaborate with a team. I have a Master's degree in Applied Mathematics.

## EXPERIENCE

### Machine Learning Developer

Softec 2018 / 04 - now

- Developed ML products in various domains such as Fintech, Healthcare, IoT sensors
- Deployed services on the DC/OS cluster using Docker and Jenkins for CI/CD
- Gained knowledge of Microservice architecture, Software development, DevOps
- Part of company R&D initiatives in the field of Artificial Intelligence
- Actively communicated with clients whether to discuss design or present solution
- Trained junior co-workers and coordinated in-house ML education and workshops

### Investment Analyst

PSLSP Insurance 2017 - 2018

- Asset Risk management analyst at a subsidiary of Vienna Insurance Group

## TOP PROJECTS

### Detection of invalidated ID cards on photo

Softec 2021 / 01 - now

- Trained TensorFlow segmentation model on 3D synthetic data, Designed algorithm using OpenCV to validate correct ID card shape, Implemented gRPC API service

### Calibration of air quality IoT sensors

Softec 2020 / 01 - now

- Designed calibration process for multiple sensors, Trained regression models to improve sensor precision, Implemented services (Grafana, TimescaleDB, Flask) for monitoring

### Prediction of cancer incidence

Softec 2019 / 09 - 2019 / 12

- Researched academic papers, Implemented Age Period Cohort and ARMA models in R, Enhanced accuracy with feature engineering, Visualized results in a dashboard

### Spoof detection

Softec 2018 / 09 - 2019 / 04

- Researched and implemented various methods to check liveness from single photo
- Trained 3 models using Keras, OpenCV, XGBoost and created dockerized flask REST API

### Banking process mining

Softec 2018 / 07 - 2018 / 12

- Extensively used PySpark for data engineering, Trained LSTM neural network

## EDUCATION

### Master's degree in Applied Mathematics

Comenius University 2015 - 2017

- Field of study: Economic-financial mathematics and modelling
- Main subjects: Computer Science, Optimization, Numerical Methods, Econometrics
- Master thesis: Multifactor models of interest rates (written in english, pdf)

### Scholar Internship abroad

University of Aberdeen 2015 / 08

- Numerical simulation of cellular chemical processes in C

### Bachelor's degree in Applied Mathematics

Comenius University 2012 - 2015

- Field of study: Economic-financial mathematics
- Main subjects: Statistics, Calculus, Algebra, Nonlinear Programming



## CONTACT

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in [Matus Kosik](#)

## LANGUAGES

🏠 Slovak ★★★★★★

🗨️ English ★★★★★★

🗨️ German ★★☆☆☆☆

## TECHNOLOGIES

🐍 Python 📊 R 📊 Matlab\* 📊 Scala\*

🐳 Docker 🐳 docker-compose

📦 PySpark 📦 PostgreSQL 📦 HDFS

☁️ DC/OS 🐙 Jenkins 📦 git 📦 Gitlab

🍷 Flask 📊 Dash 📊 gRPC

📦 Tensorflow 📦 Keras 📦 Gensim NLP

📦 OpenCV 📦 XGBoost 📦 Statsmodels

📦 Pandas 📦 Numpy 📦 Scikit-learn

📦 Scipy 📦 CausalML 📦 Geopandas

\* Not actively used / Basic level

## SOFT SKILLS

Quick Learner Independent

Good Presentation Skills

Analytical thinking

## OPERATING SYSTEMS



## ACTIVITIES

