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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- Matus Kosik

LANGUAGES

- Slovak ★★★★★
- English ★★★★☆
- German ★★☆☆☆

TECHNOLOGIES

Python   R
Matlab*   Scala*   C++*
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