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 ML lifecycle, e.g. business understanding, data wrangling, model training, deployment, etc. I am proactive, analytical, critical thinker and able to lead or collaborate with a team. I have a Master's degree in Applied Mathematics.

EXPERIENCE

Lead Data Scientist — Kendaxa 2021 / 10 - 2022 / 12

- Led agile data science team and several projects in the Industry domain
- Continued work on product and extended its features (BOM validator)
- Created PoCs for new business usecases (predictive maintenance, geospatial analysis)
- Atlasian stack (bitbucket, jira), Google Cloud with kubernetes cluster (ArgoCD)
- Actively communicated with clients to discuss design, present solution or gather feedback

Machine Learning Developer — Softec 2018 / 04 - 2021 / 09

- Developed ML products in various domains such as Fintech, Healthcare, IoT sensors
- Deployed services on the DC/OS cluster using DevOps tech (Docker, Jenkins, GitLab)
- 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

BOM (Bill of Materials) validator — Kendaxa 2021 / 10 - 2022 / 12

- Took over the product - reduced the number of False positives, Association pattern mining (Eclat algorithm), graph neighbourhood (simple embedding, GraphSage)

Geospatial analysis for construction vehicles — Kendaxa 2022 / 03 - 2022 / 06

- Design usecases how to monetize location data from construction vehicles, implemented demos, HDBSCAN clustering, CO2 emission estimation with XGBoost

Detection of invalidated ID cards on photo — Softec 2021 / 01 - 2021 / 06

- 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 - 2021 / 01

- 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

- Main subjects: Statistics, Calculus, Algebra, Nonlinear Programming
- Bachelor thesis: Economic effectivity of Non-Profit Organizations in Slovakia

CONTACT

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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 Explainer, Analytical thinking

OPERATING SYSTEMS

ACTIVITIES