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 engineering, 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

Data Science Engineer — Blueprint Power, BP 2023 / 04 - now
- Developed production use services that provide energy usage forecasts and analytics
- Improved data-quality of the IoT sensor data and implemented an analytics layer
- Proactively drived research projects and looked for more business value and data insights

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

Building energy management — Blueprint Power 2023 / 07 - 2023 / 10
- Implemented advanced energy analytics as Django services and deployed into production

Data quality improvements — Blueprint Power 2024 / 01 - now
- Implemented Data warehouse and Superset BI analytics to monitor data quality and more

BOM (Bill of Materials) validator — Kendaxa 2021 / 10 - 2022 / 12
- Took over the product development and reduced the number of False positives

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
- Implemented Age Period Cohort and ARMA models in R. Released into production

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, Dask, PostgreSQL, MongoDB, Elasticsearch, HDFS, DC/OS, Jenkins, git, Gitlab, Google cloud (GCP), Kubertnetes, Flask, Dash, gRPC, Django, Tensorflow, Keras, Gensim NLP, OpenCV, XGBoost, Statsmodels, Pandas, Numpy, Scikit-learn, Scipy, CausalML, Geopandas

* Not actively used / Basic level

SOFT SKILLS

Good presentation | Independent | Proactive | Analytical | Problem solving

OPERATING SYSTEMS

ACTIVITIES