

Jan Beníšek

DATA SCIENCE · STATISTICS · BUSINESS INTELLIGENCE

Brussels, Belgium

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Education

Statistics, Msc.

Leuven, Belgium

KU LEUVEN, FACULTY OF SCIENCE

02/2016 - 06/2019 (expected)

- Specialization in Business Statistics. Part-time.
- Master thesis: Software for automated diagnosis of ovarian cancer from ultrasound images.

Economics and Management, Bc.

Cheb, Czech Republic

UNIVERSITY OF WEST BOHEMIA, FACULTY OF ECONOMICS

09/2009 - 06/2013

Experience

Data Scientist Consultant

Brussels, Belgium

PYTHON PREDICTIONS

10/2017 - today

- **E-Commerce:** Explored rejected customers and suggested ways how to **monetize** them by custom offers, while reducing the risk of default. Consequently built predictive models and simulated their effect
- **Telco:** Enhanced models for **predicting segment** of clients by custom optimization function and sampling by 5%. Translated the **models to Spark** which increased the speed by 50%. **Refined the definition** of segments for better TV targeting by analyzing large database of viewing data. Participated on in-house tool for **automated model building** and extended its capabilities with easy model comparison and monitoring
- **Food delivery:** Coached the CEO in designing product **recommendation system and forecasting**
- **Manufacturing:** Coached co-workers in **churn prediction** project and helped them be more efficient.
- **Health startup:** As a proof of concept, built **LSTM models** for seizure prediction for patients suffering epilepsy.
- **Banking:** Improved accuracy of **recommender system** for banking products by 10% by using more sophisticated approach and refined business definition. Reduced the calculation time by a factor of 10 by sampling and vectorization. Presented the results to the higher management. **Scraped** tens of thousands of CVs and motivation letters from former applicant to help improve the hiring process
- **Food Retail:** Analyzed and visualized customer behavior in store by exploring **sensor data** and suggested ways of how to leverage them
- **Insurance:** Built software for faster **profiling of customers**, which helped the internal team to be more productive and spend less time on ad-hoc business questions
- **Internal projects:** Automation of predictive analytics, performance dashboards, inspiring modern data science activities, projects and tools, **correcting coding tests** of new applicants

Data Scientist

Brussels, Belgium

TEST-ACHATS

09/2015 - 10/2017

- **Co-founder and tech. leader** of Advanced Analytics activities in multiple departments and branches in other countries. Responsible for technical solution and methodology. Participation in **hiring** of new analysts.
- Designed **churn prediction** model for better customer retention. Implemented data-driven **segmentation** to improve targeting and developed **insights** into behaviour of customers to increase loyalty.
- **Story-telling** and visualization to communicate the results in a simple manner. Close cooperation with DWH team, business analysts and reporting specialists.

Business Intelligence Specialist

Brussels, Belgium

TEST-ACHATS

09/2014 - 09/2015

- **Data analysis** and visualization to support business decisions.
- Responsible for technical solution of requests - SQL and MS Excel **development**. Increased productivity with newly developed tools.
- Cooperation with DWH team - monitoring of data quality, participating in adding new facts and dimensions.
- One-Year internship.

Data Analyst

Prague, Czech Republic

ČESKÁ SPOŘITELNA

12/2013 - 08/2014

- Participation in design of new **reporting** system. Responsible for technical solution. Fixed-term contract.
- Regular and ad-hoc reports and **analysis** for management and distribution site. Improved system for faster remuneration of sales staff.

Various positions in finance

Cheb, Czech Republic

FINANCIAL INSTITUTIONS

02/2012 - 11/2013

- **Business Loan Specialist:** Financial analysis and monitoring of companies, granting loans. Technical support. 1 Year.
- **External editor:** Technical articles about finances and economics. 5 months.
- **Consultant:** Personal financial advisor. Creating and selling financial portfolios. 9 months.

Skills

Languages **English:** Full proficiency (IELTS certification: band 7) **French:** limited working proficiency **Czech & Slovak:** Native

Statistics

Linear models, Multivariate Techniques, Time Series, Survival Analysis, Design of Experiments, Sampling and Survey methodology, Bayesian Statistics, SEM, Optimization.

Machine Learning

Supervised and unsupervised learning, classification tasks, dimensionality reduction, model selection, neural networks (Keras, Tensorflow), recommender systems, market basket analysis, anomaly detection, NLP, Computer Vision.

Programming

Proficient in **Python** (SciPy Stack and related libraries, Jupyter notebooks), PL/SQL, T-SQL and SAS. Comfortable with **R**, **PySpark**, matlab, VBA, unix shell.

Data storage

Experience with Hadoop, Spark and Azure. DB design, ETL and Dimensional Modeling, **SQL** development and optimization in SQL Server and Oracle. Familiar with NoSQL.