



# MARKÉTA INCE

## DATA SCIENTIST

### ABOUT ME

- I'm a **Data Scientist** with more than two years of working experience.
- My language of choice is **Python**, but I have experience with SQL, R, GNU Octave
- I have **analytical mindset** with strong **attention to detail** and a great passion for programming.
- In the recent year, I started working on front end development to develop user Interfaces to visualize data with **JavaScript/ Vue.js**.

### TECHNOLOGIES

	Python	● ● ● ● ●
	R	● ● ● ●
	NumPy & pandas	● ● ● ● ●
	Matplotlib & Seaborn	● ● ● ● ●
	Pyspark	● ● ●
	SQL	● ● ● ● ●
	Power BI	● ● ● ●
	AWS	● ●
	HTML5/CSS3	● ● ● ● ●
	jQuery	● ●
	JavaScript/ES6	● ● ● ● ●
	Vue.js	● ● ● ●
	Adobe XD	● ● ● ●
	Git/GitHub	● ● ● ● ●

### LANGUAGE SKILLS

	Czech   Slovakian	Native speaker
	English	Fluent
	Dutch	B1 - Proficiency
	French	A2 - Proficiency

### CONTACT INFORMATION

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### PROJECTS | EXPERIENCE



#### Chatbot App

INTERNAL PROJECT AT VALION NV (WINTER & SPRING 2020)

**Technologies:** JavaScript | jQuery | Python | Google Dialogflow API

- I took a part in an internal POC for the development of a Chatbot App.
- This app is designed to improve the user experience of potential customers, who want to use a Chatbot on their website.
- This app consists of a User Interface (UI) around Google Dialogflow API, while providing certain extra features via this front-end.



#### Energy Resources Analysis

VITO | VEA (2018 - 2019)

**Technologies:** Python | Jupyter Notebook | Git/GitHub

- The goal of this project is to perform a data analysis for VEA and to discover new insights on the current state of Belgian housing based on a data-driven approach.
- To achieve this objective, feature engineering is applied to unravel correlations between the type of housing and the amount of insulation and energy consumption so that the accuracy of the predictions from the previously developed machine learning models could be improved.



#### Data Pipelines on AWS

VLAAMSE OVERHEID (2018 - 2019)

**Technologies:** AWS (CloudWatch | EC2 | Serverless Lambda Functions | Data Pipelines | API Gateway), Python | MySQL | Microsoft SQL Server | Git/GitHub

- I took part in implementing and automating data flows for assets management of Het Facilitair Bedrijf - VO.
- I built several data pipeline flows which involve getting data from APIs, applying ETL on them and storing them in Amazon RDS databases.
- Such flows were constructed using AWS architecture, transforming data from source systems into continuously updated datasets (stored in MySQL database), which are ready to be fed into key business dashboard.



#### Data Science & Machine Learning

VDAB INNOVATION LAB - INTERNSHIP (2018 - 2019)

**Technologies:** R, Apache Spark, Git/GitHub

- During my internship in Innovation Lab of VDAB, I had the chance to take a part in **Next Best Steps (Kans op Werk)** project, which is a large-scale project developed by a large team of data science/engineering experts.
- NBS is a Random Forest model predicting for each client of VDAB, whether they are likely to find a job in next six months. Examples of some of my tasks:
  - Investigate the influence of balancing data set on the AUC of RF.
  - Supporting DS team with ETL tasks
- I also took part in POC development: "Course Recommender For VDAB Clients"

## QUALIFICATIONS & CERTIFICATES



### Deep Learning | Nanodegree Certificate

UDACITY, SEP. 2019



- **Focus:** Deep Learning topics such as Computer Vision | Natural Language Processing (NLP) | Convolutional Neural Networks (CNNs) | Recurrent Neural Networks (RNNs) | Generative Adversarial Networks (GANs).
- **Technologies:** Python, PyTorch, GitHub, AWS SageMaker.
- To obtain a certificate a student must submit five projects, which are reviewed by expert in the field.



### Machine Learning - Introduction | Nanodegree Certificate

UDACITY, AUG. 2019



- **Focus:** Most fundamental topics of Machine Learning and Artificial Intelligence.
- **Technologies:** Python, PyTorch, sklearn.
- To successfully finish this course a student must submit three projects, which are reviewed by expert in the field.

### Machine Learning By Stanford University |



### Certificate

COURSERA, JUL. 2019

- **Focus:** Strongly on mathematics and Machine Learning and Deep Learning theory.
- **Technologies:** GNU Octave.
- Course taught by Andrew Ng, professor at Stanford University.

### The Modern JavaScript Bootcamp |



### Udemy Certificate

UDEMY, JUN. 2020

- **Focus:** Bootcamp covering all essential topics to build a real-world app with JavaScript - ES6/ES7.
- Includes three apps projects a student is expected to built from scratch to deployment.

### Spark and Python for Big Data with



### Pyspark | Certificate

UDEMY, JAN. 2020

- **Focus:** PySpark. Course on Machine Learning with Big Data using Pyspark.



### Analyzing Your Data With Power BI for BI Professionals | Certificate

U2U TRAINING, OCT. 2019

- **Focus:** Power BI. On-site one week training provided by U2U nv/sa.
- **Address:** Z.1. Researchpark 110, 1731 Zellik (Brussels).

### DataCamp Online Trainings



DATA CAMP, 2017 - CONTINUOUS

- Multiple trainings provided by DataCamp, covering topics such as data manipulation and cleaning, and data analysis with Python
- Python packages, for example: Pandas, Requests, Sklearn, Keras, nltk, Matplotlib, Seaborn, SQLAlchemy, pytest, ...

## EDUCATION



### Master Degree in Civil Engineering

2013 - 2017 | BRNO UNIVERSITY OF TECHNOLOGY

- In the year of 2017, I obtained a Masters Degree in the field of **Water Management and Water Structures at Faculty of Civil Engineering, BUT**. When preparing my final thesis "Analysis of flood situation on selected part of river,"
- I had the opportunity to develop a model of part of river Svitava with program HEC-RAS. With the help on numerical statistical modelling (combining 1D and 2D) of flow rate I was able to evaluate and predict current flood situation and propose some possible solutions for flood protection using historical water/rain/flood data.
- As part of my Master studies in academic year 2014/2015 I participated in Erasmus+ Study Exchange Program, where I joined courses in Faculty of Engineering and Architecture at Ghent University.



### Bachelor Degree in Civil Engineering

2009 - 2013 | BRNO UNIVERSITY OF TECHNOLOGY

- In 2013 I successfully obtained my Bachelors Degree at the Faculty of Civil Engineering. During this four years studies I obtained all the extensive theoretical and practical knowledge required for a future Engineer.
- My thesis "Revitalization of river for fish," is focused on evaluating a part of river Svitava in terms of its habitability by aquatic animals.

## WORK EXPERIENCE



### VALION NV

Information Technology & Services

JUL. 2018 - PRESENT

- Consultant for Valion NV - Cronos Groep.
- Participated in several projects for different clients like VDAB, VO, VITO (see above).



### BLECKMANN

Fashion & Lifestyle Logistics

MAR. 2017 - JUL. 2018

- Inventory of stock in a logistic company targeted on clothing industry.



### BROSE

Automotive supplier

2008 - 2013

- Student summer jobs - Support to the logistics team.