

# Milan BERKA

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Cesky Krumlov, Czech Republic — 12<sup>th</sup> December 1991  
ADDRESS: Za Kostelem 150, Vetrni 382 11, Czech Republic  
PHONE: +420 606548441  
EMAIL: berkamilanml@gmail.com

## EDUCATION

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2014 - 2016 Master's Degree in **Mathematical Engineering**  
CZECH TECHNICAL UNIVERSITY IN PRAGUE  
Faculty of Nuclear Sciences and Physical Engineering  
Master Thesis: "*Distributed Approximate Bayesian Filtration with ABC and Marginalization*"

2011 - 2014 Bachelor's Degree in **Mathematical Engineering**  
CZECH TECHNICAL UNIVERSITY IN PRAGUE  
Faculty of Nuclear Sciences and Physical Engineering  
Bachelor Thesis: "*Estimation of Dynamical Systems Parameters via ABC*"

## EXPERIENCE

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2017 - | **Data Scientist/Engineer** (contractor)  
DATASENTICS, S.R.O.  
As a data scientist/engineer in DataSentics, I am responsible for implementing data pipelines and providing data analyses for various clients such as Allianz, mBlue, Coya etc. I utilized most of the popular cloud providers nowadays such as AWS, MS Azure or Google Cloud; I work heavily with Databricks and thus, Spark.

2016 - 2017 | **Data Scientist** (contractor)  
LIFTAGO, A.S.  
As a data scientist in Liftago, my responsibilities included refining the ETL process and providing various BI/Machine Learning solutions. During my time at Liftago, I introduced and implemented new ETL architecture, created new data warehouse, implemented new BI reporting system with Slack integration and designed machine learning algorithm for predicting the attractivity of passenger's order for given taxi driver. Tools I worked with include Keboola, Snowflake, MongoDB, MySQL, Tableau and GoodData. From the programming language standpoint, I used mainly Python (pandas in particular) and SQL.

2015 - | **Equity Trader** (freelance, from home)  
Day trading US equities on NYSE, NASDAQ and AMEX, using my own money.

2014 - 2015 | **Researcher, programmer** (part-time)  
INSTITUTE OF INFORMATION THEORY AND AUTOMATION (UTIA)  
Collaborated on development of marginalized approximate Bayesian computation filter.

## OTHER ACHIEVEMENTS

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March 2016 | **Deloitte's Applied Analytics Challenge**  
Our team successfully finished the Applied Analytics Challenge organized by Deloitte.  
The task was to predict electricity prices and then optimize paper plant production given the predicted prices.

## LANGUAGES

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CZECH: Native Language  
ENGLISH: Fluent  
GERMAN: Basic Knowledge  
SPANISH: Beginner

## INTERESTS AND ACTIVITIES

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FINANCE: Equity Markets, Fundamental & Technical/Quantitative Analysis  
PROGRAMMING: Web Design & Development  
MATHEMATICS: Machine Learning, Data Analysis, Bayesian Statistics  
OTHERS: Guitar, Traveling, Sport, Biotechnology, A.I., Elon Musk's ventures

## COMPUTER SKILLS

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TECHNOLOGIES: AWS, Snowflake, Google Cloud, MS Azure, Databricks  
SOFTWARE: MS Office, GIMP, Tableau, Keboola  
PROGRAMMING: Python (including packages such as pandas, numpy, sklearn or Django), Spark, SQL, R, MATLAB, L<sup>A</sup>T<sub>E</sub>X, HTML, CSS

## DRIVER'S LICENSE

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GROUP: B (active driver)