

# Krystian Figiel

## Résumé

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### Education

- 2016 - 2020 **Bachelor of Engineering, Applied Computer Science**, University of Silesia, Katowice  
*Engineer's Thesis: Machine Learning methods for the clusterization in the NA61/SHINE experiment*
- 2017 - 2019 **Master of Arts, Cello**, Academy of Music, Katowice

### Experience

- July 2021 - **Data Engineer, UBS Buissness Solutions**, Cracow  
curr. Designing and maintaining ELT pipelines in PySpark and Airflow, in cooperation with data analysts, constructing automated data quality checks
- Mar 2020 - **Technical Student, European Organisation for Nuclear Research**  
Feb 2021 **CERN**, Geneva  
Automating migration of data in Python between databases using APIs, creating a library for a hardware database
- Aug - Sep 2019 **Intern, jlabs software specialists**, Krakow  
Data engineering and implementation of machine learning system, work with AGILE methodology, public presentation covering the basics of machine learning and the project
- Nov - Dec 2018 **Media Information Desk Clerk, COP24**, Katowice  
Pursuit and distribution of informations, work in a small team

### Computer skills

- OS Linux, Windows - administrative and maintenance skills
- Languages Python (*PySpark, pandas, NumPy, scipy, keras, TensorFlow, matplotlib, pygame, transmission, PIL*), SparkSQL, C, bash, L<sup>A</sup>T<sub>E</sub>X
- IDE Google Colab, jupyter, vim
- Other Experienced with git, ReST & SOAP API, familiarities with Raspberry Pi & noSQL, proficiency with Microsoft Office

### Languages

- English - advanced (C1)  
French - intermediate (B1)  
Finnish - beginner (A1)

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## Courses

Nov 2022	<b>Advanced SQL</b>
<u>Certificate</u>	Analytic functions, nested & repeated data, efficient queries
Sep 2022	<b>Time series</b>
<u>Certificate</u>	Linear regression, trend, seasonality, hybrid models
Sep 2022	<b>Intermediate machine learning</b>
<u>Certificate</u>	Missing values, pipelines, cross-validation, extreme gradient boost, data leakage
Sep 2022	<b>Intro to machine learning</b>
<u>Certificate</u>	Data exploration, model validation, under- and overfitting
Sep 2022	<b>Feature engineering</b>
<u>Certificate</u>	Mutual information, creating and evaluating features, k-means clustering, PCA, encoding
Nov - Dec 2019	<b>The ultimate hands-on Hadoop</b>
<u>Certificate</u>	Overview of HDFS and MapReduce, data analysis with Spark, storage and analysis with Sqoop, Hive, MySQL, real-time data streaming with Kafka, Spark
Nov - Dec 2019	<b>Deep learning for Python and Keras</b>
<u>Certificate</u>	Overview of keras and other data-analysis-related libraries, applying machine learning techniques to various problems, usage of convolutional and recurrent layers, transfer learning
Nov 2019	<b>Spark and Python for Big Data with PySpark</b>
<u>Certificate</u>	Introduction to PySpark, overview of Spark DataFrame syntax, working with SparkMLlib, Spark Streaming and SparkSQL
Mar - May 2019	<b>Corporate Readiness Certificate - Big Data, by IBM</b>
<u>Certificate</u>	Basics of data analysis, introduction to R & data science, social media analysis, big data in finances, introduction to git and quantum computing

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## Interests & hobbies

- AI, machine learning algorithms, artificial life simulations
- Physics, quantum physics, maths
- Music, science fiction and fantasy literature, computer games
- Traveling, ballroom dancing