

Krystian Figiel

Résumé

☎ 0048 605 526 063
✉ krystian.figiel@smcebi.edu.pl
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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 automating Airflow frameworks in cooperation with data analysts, constructing 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

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

Aug 2019 - **IT director**, KUEK, Cracow

Mar 2020 Migration of user data from old platform to a new one, general IT support and maintenance

Nov - Dec 2018 **Media Information Desk Clerk**, COP24, Katowice

Pursuit and distribution of informations, work in a small team

Computer skills

Operating systems Linux, Windows - administratative and maintenance skills

Languages Python (*PySpark, pandas, NumPy, scipy, keras, TensorFlow, matplotlib, pygame, transmission, PIL*), SparkSQL, C, bash, L^AT_EX

IDE Google Colab, jupyter, vim

Other Experienced with git, ReST & SOAP API, familiarities with Raspberry Pi, proficiency with Microsoft Office

Courses

Nov 2022	Advanced SQL
<u>Certificate</u>	Analytic functions, nested & repeated data, efficient queries
Sep 2022	Time series
<u>Certificate</u>	Linear regression, trend, seasonality, hybrid models
Sep 2022	Intermediate machine learning
<u>Certificate</u>	Missing values, pipelines, cross-validation, extreme gradient boost, data leakage
Sep 2022	Intro to machine learning
<u>Certificate</u>	Data exploration, model validation, under- and overfitting
Sep 2022	Feature engineering
<u>Certificate</u>	Mutual information, creating and evaluating features, k-means clustering, PCA, encoding
Nov - Dec 2019	The ultimate hands-on Hadoop
<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	Deep learning for Python and Keras
<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	Spark and Python for Big Data with PySpark
<u>Certificate</u>	Introduction to PySpark, overview of Spark DataFrame syntax, working with SparkMLlib, Spark Streaming and SparkSQL
Mar - May 2019	Corporate Readiness Certificate - Big Data, by IBM
<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

Languages

English	- advanced (C1)
French	- intermediate low (A2)

Interests & hobbies

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