

## Experience

- May 2023 - **AI Developer**, *UBS Buissness Solutions*, Cracow  
curr.
  - CI/CD pipeline maintenance in gitlab
  - Development of machine learning and rule-based models according to established project requirements
  - Maintenance of projects after a take-over and adjustments to new requirements
  - Development and maintenance of reusable tool to measure model performance
  - Conducting and presenting proofs-of-concept of LLMs
  - Model documentation, revalidation
- July 2021 - **Data Engineer**, *UBS Buissness Solutions*, Cracow  
May 2023
  - Implementation of ETL pipelines with PySpark and SQL
  - Job scheduling with Airflow
  - DQ checks construction in cooperation with data analysts
- Mar 2020 - **Technical Student**, *European Organisation for Nuclear Research*  
Feb 2021 *CERN*, Geneva
  - Legacy code analysis and reviewal
  - Development of Python library for a hardware database
  - Working with both ReST & SOAP API
- Aug - Sep 2019 **Intern**, *jlabs software specialists*, Cracow
  - Introduction to AGILE methodology
  - Implementation of a machine learning system
  - Public presentation covering basis of machine learning

## Education

- 2016 - 2020 **Bachelor of Engineering**, *Applied Computer Science*, University of Silezia, Katowice  
Thesis: *Machine Learning methods for the clusterization in the NA61/SHINE experiment*
- 2017 - 2019 **Master of Arts**, *Cello*, Academy of Music, Katowice  
Thesis: *Analysis of Igor Stravinsky's "Suite Italienne" in terms of its origin and the technical problems it contains*

## Computer skills

- Programming Python (*PySpark*, *pandas*, *scipy*, *keras*, *TensorFlow*, *matplotlib*, *plotly*, *openai*, *click*, *PIL*), SQL, C, bash,  $\text{\LaTeX}$
- Tools kedro, poetry, docker, gitlab CI/CD, Domino DataLab, airflow, jupyterlab
- Other ReST & SOAP API, proficiency with Microsoft Office and bash terminal

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## Languages

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

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## Courses

Nov 2022 **Advanced SQL**  
Certificate Analytic functions, nested & repeated data, efficient queries

Sep 2022 **Time series**  
Certificate Linear regression, trend, seasonality, hybrid models

Sep 2022 **Intermediate machine learning**  
Certificate Missing values, pipelines, cross-validation, extreme gradient boost, data leakage

Sep 2022 **Intro to machine learning**  
Certificate Data exploration, model validation, under- and overfitting

Sep 2022 **Feature engineering**  
Certificate Mutual information, creating and evaluating features, k-means clustering, PCA, encoding

Nov - Dec 2019 **The ultimate hands-on Hadoop**  
Certificate 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**  
Certificate 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**  
Certificate 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**  
Certificate 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