

# Pawel Cislo

MLOPS ENGINEER · DATA SCIENTIST

Rzeszow, Poland

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*"As data connoisseurs, our job is to extract signal from noise."*

## Summary

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Experienced MLOps and Data Scientist with a demonstrated history of working in the engineering consultancy sector. Holding a Master of Science degree focused on Data Science and Computational Intelligence from Coventry University.

Enthusiastic about analysing large amounts of raw information in order to pinpoint patterns that help advance company mission. Ready to perform a complete data science pipeline, from data acquisition, manipulation and prediction to presentation with an interactive web dashboard.

In spare time enjoys blogging on his website, contributing to open source projects, participating in local technological communities, consuming books, doing graphic and video editing, exploring music production, and staying active through sports.

## Skills

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<b>Programming</b>	Python, R, MATLAB, SQL, Bash, Java, C++, HTML, CSS
<b>Tools/Frameworks</b>	Docker, Kubernetes, Kubeflow, Rest APIs, AWS, GCP, Git, Argo CD, Helm, Ansible, Spark, TensorFlow, Keras, scikit-learn
<b>Machine Learning</b>	MLOps, LLM, NLP, Image Analysis, Statistics, Visualisation, Web Scraping
<b>Languages</b>	English (fluent), Polish (native), French (B1), German (A2)

## Work Experience

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### Billennium

MLOPS ENGINEER

Poland (Remote)

Feb. 2021 - Present

- Building MLOps platform for a pharmaceutical client on behalf of Billennium.
- Integrating Retrieval-Augmented Generation systems with Large Language Models and vector databases for various industries.
- Managing AWS Cloud instances for the internal Big Data Academy programme.
- Teaching different MLOps subjects in the internal MLOps Academy programme.
- *Technical skills:* AWS, CDK, Terraform, Docker, Buildpacks, Kubernetes, Kubeflow, Argo CD, Grafana Loki, Bash, CI/CD, Python, ML, RAG, LLMops.

### AKKA Technologies

DATA SCIENCE CONSULTANT

Brussels, Belgium

Jan. 2019 - Aug. 2020

- Developed an interactive BI dashboard for the business department to have a clear overview of the company's workforce and market trends.
- Contributed to the development of the NLP tool, which automatically transcribes and summarises audio recordings.
- Transferred extensive data from the Excel spreadsheets to the Access database, with a generation of extra tables to forecast production.
- Consulted Alstom System Team on the current data analysis solutions on behalf of AKKA Technologies.
- Received 1-month intensive training by The AKKAdemy group in Geneva (Switzerland) on consulting in the engineering field.
- *Technical skills:* Python, NLTK, Machine Learning, Selenium, SQL, D3.js, Dash, Git, Scrum.

## Education

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### Coventry University

MSC IN DATA SCIENCE AND COMPUTATIONAL INTELLIGENCE

Coventry, United Kingdom

Sep. 2017 - Sep. 2018

- Awarded with Distinction (75% score) | Thesis: "Automated Image Analysis of Micrographs"
- Activities and Societies: course representative, Global Leaders Programme member, media presence

### Coventry University

BSc (HONS) IN INFORMATION TECHNOLOGY

Coventry, United Kingdom

Sep. 2016 - Apr. 2017

- 1st Class Degree (80% score)

### University of Information Technology & Management in Rzeszow

BSc (HONS) IN INFORMATION TECHNOLOGY AND ECONOMETRICS

Rzeszow, Poland

Oct. 2014 - Sep. 2017

- 1st Class Degree (4.5 GPA = 91% score) | Thesis: "Implementation of IoT (Internet of Things) in a Smart Building"
- Activities and Societies: scientific club of new programming technologies, group leader, media presence

# Certificates

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2021	<b>Deep Learning Specialization</b> , by Deeplearning.ai	<a href="#">Coursera</a>
2020	<b>Spark and Python for Big Data with PySpark</b> , by Jose Portilla	<a href="#">Udemy</a>
2020	<b>Probability and Statistics for Business and Data Science</b> , by Jose Portilla	<a href="#">Udemy</a>
2019	<b>Machine Learning</b> , by Stanford University	<a href="#">Coursera</a>
2019	<b>Data Workshop Machine Learning Challenge</b> , by DataWorkshop	<a href="#">DataWorkshop</a>
2018	<b>Python for Data Science and Machine Learning Bootcamp</b> , by Jose Portilla	<a href="#">Udemy</a>
2017	<b>Data Science Essentials</b> , by Microsoft	<a href="#">edX</a>
2017	<b>MTA Security Fundamentals</b> , by Microsoft	<a href="#">Coventry University</a>
2017	<b>MTA Software Development Fundamentals C#</b> , by Microsoft	<a href="#">Coventry University</a>
2017	<b>MTA Database Administration Fundamentals</b> , by Microsoft	<a href="#">Coventry University</a>

# Projects

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## RAG Systems

MLOPS ENGINEER, BILLENNIA

[Confidential](#)

Dec. 2024 - Present

- Deploying Retrieval-Augmented Generation (RAG) systems to enhance knowledge retrieval.
- Integrating Large Language Models (LLMs) with vector databases to enable efficient document search and summarization.
- Conducting extensive testing with comprehensive documentation for easy deployment and scalability.

## MLOps Platform

MLOPS ENGINEER, BILLENNIA

[Confidential](#)

Feb. 2021 - Present

- Implementing and supporting the MLOps Kubeflow platform tailored for a pharmaceutical client.
- Researching MLOps tools and frameworks, contributing to raising MLOps maturity within the organization.
- Collaborating closely with data scientists to onboard their ML models.
- Tools: AWS, Bash, CI/CD, Docker, Buildpacks, GitOps (Argo CD), Kubeflow, Kubernetes, Grafana Loki, Machine Learning, Python, Scrum.

## Automated Image Analysis of Micrographs

[Available on Github](#)

MASTERS THESIS, COVENTRY UNIVERSITY

Sep. 2018

- Developed automation system for image analysis process which can characterise biomedical scans rapidly.
- Generated features, such as the distribution of grains, area fraction and interparticle distances.
- Improved currently applied methods from thirty minutes of error-prone results to one minute of high accuracy data (images, plots, tables).
- Encoded the entire workflow in a GUI to provide the highest ease of use and let the user predefined the analysis parameters, for example, to specify the desired particle segmentation.
- Tested multiple options (Python, ImageJ, MATLAB) and algorithms (auto-thresholding, machine learning) to find the best possible application for the specified user and system requirements.
- Collaborated with a client and university research department to define the requirements and get vital feedback on the system development.

# Extracurricular Activities

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## Speaker at conferences

[List of all talks](#)

PRESENTER

Oct. 2022 - Present

- 15.05.2025 - presented "AI Chatbot Implementation in a Business: Key Processes to Address" during a local meetup in Rzeszów ("Śniadanie AI Rzeszów 4.0")
- 13.10.2022 - presented "The use of cloud computing in business and artificial intelligence" during a local conference in Rzeszów ("Carpathian Startup Fest 2022: Deep Tech")

## Community Moderator

CO-FOUNDER

[Polish ML Community](#)

May. 2021 - Present

- Moderating a community with a Discord server, which gathers machine learning enthusiasts from Poland.
- Participating in regular online/offline meetups focusing on various machine learning topics.

## Personal Blog Manager

[pawelcislo.com](#)

CREATOR

Sep. 2018 - Present

- Reached 25,000+ page views with 15,000+ unique visitors from different countries.
- Wrote "[Data Science Resources](#)" e-book accessible by newsletter subscribers, filled with the most practical tutorials, articles, tools and datasets.
- Published and continuously maintained "[Recommendations for Engineers](#)" page/repository, visited by 1,200+ internauts and reshared by different profiles and technological newsletters.
- Established audience interaction through multiple social media channels and the newsletter campaign.
- Evaluated website metrics to drive content/audience decisions.