

# Pawel Cislo

DATA SCIENTIST · SOFTWARE ENGINEER

Brussels, Belgium

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

## Summary

Dedicated and innovative MSc Data Scientist with related education, practicum, and experience to contribute to long-range operational objectives. Available for consulting and contract work, worldwide/remotely.

Enthusiastic about analysing large amounts of raw information in order to pinpoint patterns that help advance company mission. Demonstrated excellence in critical thinking and problem solving. Proven ability to research and develop statistical learning models for successful data analysis.

In free time enjoys blogging on his website, contributing to open source projects, participating in local technological communities, graphic designing, producing music and playing football.

## Skills

<b>Programming</b>	Python, R, MATLAB, Julia, Java, C++
<b>Tools/Frameworks</b>	TensorFlow, Keras, scikit-learn, SciPy, LaTeX, Docker, Git
<b>Data Science</b>	Statistics, Econometrics, Visualisation Tools, Image Analysis, Machine Learning, NLP
<b>Databases</b>	SQL, NoSQL, Apache Hadoop, SAP HANA, Microsoft SQL Studio, Enterprise Architect
<b>Web Development</b>	HTML, CSS, PHP, JavaScript, WordPress
<b>Operating Systems</b>	Windows, Windows Server, UNIX/Linux
<b>Languages</b>	English (fluent), Polish (native), French (A2/B1), German (A2)

## Work Experience

### AKKA Technologies

Brussels, Belgium

INTERNATIONAL ENGINEERING CONSULTANT

Jan. 2019 - Present

- Specialised in consulting AKKA Technologies clients in Belgium, within the domains of Data Science & Software Engineering.
- Received 1-month training by The AKKAdemy group in Geneva (Switzerland) on consulting in the engineering field.
- Contributed to the Research Department to develop and improve the most advanced technology on the market.
- Delivered innovation project in a team, with a full business plan and final presentation to a jury.

### Alstom

Charleroi, Belgium

DATA SCIENTIST | SYSTEM DESIGNER

Jun. 2019 - Feb. 2020

- Achieved familiarity with the railway signalling system (strictly ERTMS).
- Advised Alstom System Team on the current data analysis solutions.
- Developed Python/RegEx/Tkinter app to help with the analysis of log files.
- Wrote system requirements specification books.

## Education

### Coventry University

Coventry, United Kingdom

MSc IN DATA SCIENCE AND COMPUTATIONAL INTELLIGENCE

Sep. 2017 - Sep. 2018

- Awarded with Distinction
- Activities and Societies: course representative, Global Leaders Programme member, media presence

### Coventry University

Coventry, United Kingdom

BSc (HONS) IN INFORMATION TECHNOLOGY

Sep. 2016 - Apr. 2017

- 1st Class Degree

### Coventry University

Coventry, United Kingdom

BSc (HONS) IN INFORMATION TECHNOLOGY AND ECONOMETRICS

Sep. 2016 - Apr. 2017

- 1st Class Degree (GPA 4.5)
- Activities and Societies: scientific club of new programming technologies, group leader, media presence

## Certificates

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2019	<b>Machine Learning</b> , by Stanford University	<a href="#">Coursera</a>
2019	<b>Data Science and Machine Learning Bootcamp with R</b> , by Jose Portilla	<a href="#">Udemy</a>
2019	<b>Natural Language Processing (NLP) in Python</b> , by Lazy Programmer Inc.	<a href="#">Udemy</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>
2016	<b>Online Marketing Fundamentals</b> , by Google	<a href="#">Digital Garage</a>

## Projects

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### 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 predefine 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.

### Advancement of Convolutional Neural Networks for Image Classification

[Available on Github](#)

ARTIFICIAL NEURAL NETWORKS COURSEWORK, COVENTRY UNIVERSITY

Apr. 2018

- **Excelled at literature review, experimental setup explanation, use of three neural network types, data augmentation and visualisation.**
- Improved the regular CNNs by modifying structure and testing the effectiveness on the classification of CIFAR-10 classified dataset of images.
- Improved the accuracy of general CNN by 10 percent.
- Produced a report that explains the project and code in depth.
- Published an open-source code so that it could be improved upon and tested by potential researchers.

## Extracurricular Activities

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### Personal Blog Manager

[pawelcislo.com](#)

CREATOR

Sep. 2018 - Present

- Reached 12,000+ page views with 2,700+ 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.

### Personal Organisation Trainer

[AKKA Belgium](#)

INSTRUCTOR

Apr. 2019

- Delivered 2.5-hour "[Personal Organisation training](#)" to the engineering consultants of AKKA Belgium, resulting in great feedback.
- Balanced between the theoretical and practical part, explaining topics facilitating memory, focus, health and goal planning.

### Tech Meetup/Hackathon Participant

[Belgium](#)

PARTICIPANT/CONTESTANT

Feb. 2019 - Present

- Jun. 2019 – Took part in "[Ethics Guidelines for Trustworthy AI](#)" meetup in Brussels, where Nathalie Smuha raised the importance of the ethical aspect in AI. To familiarise others with this topic, I decided to write and share [the summary of this local session](#).
- Apr. 2019 – Participated in "[Data Hackathon - #TRACKathon19](#)" organised by Infrabel in Brussels, and [described it on my blog](#). The hackathon included group brainstorming sessions focused on the Belgian railway issues, with a support of 60 newly published online datasets.