

Paweł Cisko

DATA SCIENTIST · SOFTWARE ENGINEER

Brussels, Belgium

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

Summary

Experienced Data Scientist and Software Engineer 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 the 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, graphic designing, and playing football.

Skills

Programming	Python, R, MATLAB, Julia, Java, C++, HTML, CSS, JavaScript
Tools/Frameworks	Spark, TensorFlow, Keras, scikit-learn, SciPy, Plotly, Dash, R Shiny, D3.js, LaTeX, Docker, Git, Google Cloud Platform
Data Science	Machine Learning, NLP, Data Mining, Image Analysis, Statistics, Visualisation (interactive dashboards), Web Scraping
Databases	SQL, NoSQL, Apache Hadoop, SAP HANA, Microsoft SQL Studio, Enterprise Architect
Languages	English (fluent), Polish (native), French (B1), German (A2)

Work Experience

AKKA Technologies

Brussels, Belgium

DATA SCIENCE CONSULTANT

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.
- Wrote articles for the newsletter of AKKA Benelux group, as well as represented the organisation on data science hackathons and conferences.
- 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 within a team of engineers applying the Scrum framework.

Alstom

Charleroi, Belgium

DATA SCIENTIST | SYSTEM DESIGNER

Jun. 2019 - Feb. 2020

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

Education

Coventry University

Coventry, United Kingdom

MSc IN DATA SCIENCE AND COMPUTATIONAL INTELLIGENCE

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

Coventry, United Kingdom

BSc (HONS) IN INFORMATION TECHNOLOGY

Sep. 2016 - Apr. 2017

- 1st Class Degree (80% score)

University of Information Technology & Management in Rzeszow

Rzeszow, Poland

BSc (HONS) IN INFORMATION TECHNOLOGY AND ECONOMETRICS

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

2020	Web Scraping in Python , by DataCamp	DataCamp
2020	Building Web Applications with Shiny in R , by DataCamp	DataCamp
2020	Probability and Statistics for Business and Data Science , by Jose Portilla	Udemy
2020	Interactive Python Dashboards with Plotly and Dash , by Jose Portilla	Udemy
2020	Mastering data visualization in D3.js , by Adam Janes	Udemy
2019	Machine Learning , by Stanford University	Coursera
2019	Data Science and Machine Learning Bootcamp with R , by Jose Portilla	Udemy
2019	Natural Language Processing (NLP) in Python , by Lazy Programmer Inc.	Udemy
2019	Data Workshop Machine Learning Challenge , by DataWorkshop	DataWorkshop
2018	Python for Data Science and Machine Learning Bootcamp , by Jose Portilla	Udemy
2017	Data Science Essentials , by Microsoft	edX
2017	MTA Security Fundamentals , by Microsoft	Coventry University
2017	MTA Software Development Fundamentals C# , by Microsoft	Coventry University
2017	MTA Database Administration Fundamentals , by Microsoft	Coventry University
2016	Online Marketing Fundamentals , by Google	Digital Garage

Projects

Log to CSV Parser

[Available on Github](#)

DATA SCIENTIST | SYSTEM DESIGNER, ALSTOM

Feb. 2020

- **Developed Python application to parse selected values from LOG or TXT files into a CSV format.**
- Embedded application's architecture/workflow inside a simple GUI window.
- Thoroughly tested and documented software's working process.
- Eased the state of industry data analysis at the client's premises.

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.

Extracurricular Activities

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.