



Magdalena Kortas

Data Scientist, Machine
Learning Engineer

Skills & Certifications & Awards

Artificial Intelligence
Machine Learning
SQL
Big Data
Predictive Modelling & Analytics
Data Analysis, Wrangling & Mining
Deep Learning
Natural Language Processing
Visualisation
AWS
HTML/CSS
Statistics

Python

Keras, Pandas, Flask, NumPy,
Matplotlib, PyTorch, Scikit-learn,
Plotly, Seaborn, Pyspark, Dash

R

Tidyverse, GGplot2, Shiny,
Lubridate, DT, Plotly, e1071,
StringR, Data.table, Caret

Certifications

Certified Analytics Professional
CAP® (Institute for Operations
Research and the Management
Sciences, 2022)

Awards

Women in AI Hero (AI4EU
Consortium, 2021)
O'Reilly Scholar (USA, 2020)

Languages

Polish	Native
English	C1
Spanish	B2/C1

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Github:

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E-mail:

magdalenekortas@gmail.com

Linkedin:

@mkortas

I am an ambitious, internationally recognised and certified Data Science expert with 4 years of professional experience in Data Science & Machine Learning gained in both the private and civic sector, working on international projects connected to 7 out of 10 Australia's key target sectors. Currently developing an Artificial Intelligence solution to fight water pollution and floods in Northern America.

I am passionate about and specialised in building AI for Good solutions and my current objective is to bring innovation to Australia and target with AI the most important challenge of the 21st century - climate change counteraction (We need to take bold action now!).

Work Experience



Carl Data Solutions

10.2021 - now

Data Scientist (Infrastructure)

- Developing AI to fight water pollution and floods by predicting sewer overflow events for smart cities' waste disposal infrastructure in Northern America
- Developing AI for automatically cleaning and performing quality control on time-series data derived from sensors

Python, Github, Kafka, Kubernetes



Ihs Markit (S&P Global)

03.2021 - 09.2021*

Senior Data Scientist (Transport)

Supporting analytics application in the field of waterborne flows of commodities around the World to deliver actionable insights and support informed trading decisions

Python, GitLab, AWS

// * left due to a career growth opportunity



PredictX

08.2019 - 02.2021*

Data Scientist (Travel)

Building predictive analytics platform to provide cost control and optimise international corporate employee travel programs

Python, SQL, Bitbucket, Airflow

// * company downturn (COVID)



Magdalena Kortas Data Solutions

07.2019 - 02.2021

Owner/Data Scientist

Providing Data Science, AI and Research and Development (R&D) solutions, writing technical and non-technical articles about Data Science and AI, specialised translations to English, Spanish and Polish (Data Science/AI specialist terminology)

"Once I wanted to travel to discover the world. But I realised that everything has already been discovered. Then I decided to become a Data Scientist to discover what was left to discover" Magdalena Kortas

Memberships & Publications

Memberships

- International Society for Data Science and Analytics (ISDSA)
- WomenTech Network
- Women in AI

Publications

- Published essay in "[Analytics Interpreted](#)" USA, 2021
- "[Creating an AI to combat environmental pollution](#)" Towards Data Science, 2021
- "[Sound-based bird classification](#)" Towards Data Science, 2020

Education

Infoshare Academy

01.2018 - 07.2018

Diploma, Data Science

An intensive on-site training:
SQL, R, Python, Machine Learning, Deep Learning, data visualisation, wrangling and analysis

Gdansk University of Technology

10.2015 - 10.2017

MSc, Economic Analytics (in English)

R, VBA, SQL, data mining, data forecasting, quantitative and qualitative data analysis, network analysis

Hobbies

AI for Good
Travelling (49 countries visited)
Healthy Lifestyle
Personal Development

Work Experience



Nordea Bank

04.2018 - 07.2019*

Junior Data Scientist (Finance)

Reducing fraud and financial crime in Norway, Sweden, Denmark and Finland by applying and building analytical capabilities

R, Python, SQL, Bitbucket, PowerBI
// * team closed in Poland

Volunteering



Women in Machine Learning & Data Science Trojmiasto

07.2018 - now

Co-founder/Lead ML Engineer

Supporting and promoting practising and studying machine learning and data science in the region.

Projects:

- [AI to Combat Environmental Pollution](#) - detecting plastic waste in the environment to combat environmental pollution and promote circular economy
- [Sound-based Bird Classification](#) - using AI, acoustics and ornithology to classify birds in the environment, an environmental awareness project



Omdena

01.2020 - 01.2021

Lead ML Engineer (Education/Health)

Building innovative, ethical, and efficient AI and Data Science solutions to real-world problems.

Projects:

- [Analyzing the Importance of Sex Education in Poland with AI](#) by Exploring Sexually-related Topics Using Natural Language Processing
- [COVID-19 Global AI Challenge](#): Applying AI to help vulnerable populations



Eindhoven University of Technology

09.2020 - 10.2020

Data Scientist (Energy)

Participation in the 10th Data Challenge week.

Project:

- Adoption of renewable energy sources to reduce Co2 emissions' growth in the Netherlands

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