Magdalena Kortas

Data Scientist, Machine Learning (AI) Engineer

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A certified, ambitious and passionate **Applied Data Science expert** with wide professional experience in Data Science & Machine Learning gained in both the private and civic sector
A specialist in **AI-powered climate change counteraction and environmental protection field** and an active supporter and promoter of **women** in Data Science and Machine Learning.

Current objective: to bring innovation and tech advancement to Australia and target with AI **the most important challenge of the 21st century** - climate change counteraction - and to actively promote **women in AI in Oceania.**

Skills & Certifications

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

Certifications

Certified Analytics Professional CAP® (INFORMS, 2022)

Languages

Polish	Native
English	C1
Spanish	B2/C1

Awards

- **TOP 100 Women in AI in Poland** (Educational Journal "Perspektywy", 2022)
- **DataConnect Conference Scholar** (USA, 2022)
- **Women in AI Hero** (AI4EU Consortium, 2021)
- **O'Reilly Conference Scholar** (USA, 2020)

Memberships

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

Work Experience

Carl Data Solutions
10.2021 – present
Data Scientist

- 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
Tech stack: Python (Tensorflow, Scikit-learn), Github, Kafka, Kubernetes

Magdalena Kortas Data Solutions
07.2019 – present
Owner/Senior Data Scientist

- Providing Data Science, AI and Research and Development (R&D) **solutions for Polish and British companies in the field of climate change counteraction and environmental protection**
- Writing technical and non-technical **articles** about Data Science and AI
- **Specialised translations** to English, Spanish and Polish (Data Science/AI specialist terminology)
Tech stack: Python (Scikit-learn, Dash), SQL, Bitbucket, Airflow, HTML/CSS, Spark

Ihs Markit (S&P Global)
03.2021 – 09.2021*
Senior Data Scientist

Supporting analytics application in the field of **waterborne flows of commodities around the World** to deliver actionable insights and support informed trading decisions
Tech stack: Python, GitLab, AWS, Spark
// * left due to a career growth opportunity

Nordea Bank
04.2018 – 07.2019*
Data Scientist

Reducing **fraud and financial crime** in Norway, Sweden, Denmark and Finland by applying and building analytical capabilities
Tech stack: R (Shiny, Caret), Python (Scikit-learn), SQL, Bitbucket, PowerBI, HTML/CSS, Hive
// * team closed in Poland

"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

Publications

- "Why diversity in AI matters", Analytics Interpreted, 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

Non-profit activity

Women in Machine Learning & Data Science Trojmiasto
07.2018 - present

Co-founder/Lead Machine Learning 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
Tech stack: Python (TensorFlow, PyTorch, Flask), Github, HTML/CSS

Omdena
01.2020 - 01.2021

Lead Machine Learning Engineer

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
Tech stack: Python (TensorFlow), Github

Eindhoven University of Technology
09.2020 - 10.2020

Data Scientist

Participation in the 10th Data Challenge week.

Project:
- **Adoption of renewable energy sources to reduce Co2 emissions' growth in the Netherlands**
Tech stack: Python (TensorFlow), Github

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