

Jedrzej Kardach

Data Scientist

Enthusiastic, all-in-one AI developer experienced in working in a skill variety demanding environments.



jedrzej.kardach@me.com ✉

+48509809899 📞

WORK EXPERIENCE

Data Scientist

ORA AI

07/2018 – Present

Warsaw

AI-driven PPC automation tools provider

Achievements/Tasks

- Co-developed AI technology that optimally manages bidding process in sponsored search auctions.
- Constructed countless Machine Learning based modules that forecast time series, solve regression and classification problems or approximate values of certain metrics. All these modules aid main bidding algorithm in making final bid recommendations.
- Conducted a year long full R&D process along with Operations Research and Financial Engineering department at Princeton University which focused on developing optimal decision making policies for sponsored search auctions problem. For this purpose a multi-agent Google Ads simulation environment was developed.
- Co-developed web application facilitating supervision of digital marketing campaigns as well as AI that manages these campaigns.
- Co-developed backend infrastructure that manages communication between AI system and Google Ads.
- Constructed automated pipelines allowing deployment of various systems run by the company to AWS.
- Constructed scripts (SQL and SQLAlchemy) that allow efficient data retrieval from / upload to relational databases.
- Co-developed applications for NCBIR funding. I was mainly responsible for writing parts about planned R&D process and competitive landscape.

Contact: Piotr Ziolo (head of Data Science) – piotr.ziolo@ora-ai.com

Analyst

FindArts

07/2016 – 08/2016

London

London based start-up promoting emerging artists from UK universities and allowing them to sell their art through an online platform.

Achievements/Tasks

- Created mathematical model that allows predicting various growth and financial performance scenarios under several external and internal factors.

Mentor

zwolnienizteorii.pl

08/2015 – 05/2016

Warsaw

Achievements/Tasks

- Provided advice for project teams taking part in the competition. Reviewed and approved forms submitted by participants at each stage of completeness of their project before they were assessed by the committee to be given awards.

EDUCATION

MSc Applicable Mathematics

London School of Economics

09/2017 – 09/2018

Courses

- Thesis: Optimal Learning in Hotel Revenue Management: testing the knowledge gradient policy in a new business environment.

BSc Mathematics with Management and Finance

King's College London

09/2013 – 09/2017

SKILLS

Python

SQL

Machine Learning

Scikit-Learn

REST

AWS

Time Series

TensorFlow

Dash

Numpy

Pandas

Simulation

Stochastic Optimisation

Git

SQLAlchemy

SciPy

Jira

Flask

Optimal Learning

Bayesian Machine Learning

Operations Research

PERSONAL PROJECTS

Optimal motivation scheme design using machine learning and control theory (04/2019 – 04/2019)

- Co-designed system for optimal task allocation for employees of a large call center.

Cinema Revenue Manager (05/2017 – 09/2017)

- Co-designed system for optimising revenue of a cinema through optimal ticket pricing and movie scheduling.

CERTIFICATES

Project Management Fundamentals – conferred by Project Management Institute (PMI)

Project Management Advanced Topics - conferred by Project Management Institute (PMI)

LANGUAGES

English

Native or Bilingual Proficiency

German

Elementary Proficiency