Szczekulski Jan

Data Scientist/Software Engineer

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Experience

THE HUT GROUP | Data Scientist Experimentation

Sept 2020 – Present | Manchester, UK

- Improved & automated A/B testing tools surrounding internal A/B testing such as duration estimation or automated analyses tool. Improved internal backend used for managing experiments.
- I led the 'experimentable widgets' project, which enabled stakeholders to make changes to site widgets as A/B tests. To do this, I had to look into and make alterations to the larger internal architecture, which included 4 backends and 2 frontends
- I conducted multiple A/B/n tests, while providing deep data analysis. The experiment yielded a yearly cost savings of £1 million for the company.
- Helped develop a company-wide ML algorithm responsible for short-term demand forecasting.
- Created data pipelines from the beginning, including configuring a virtual machine, Jenkins, and scripts.

AMBROZIAK'S DERMATOLOGY CLINIC | Research Assistant

2021-present

- Analyzed data on long-term treatment of PWS-type birthmarks. Research revealed that if treatment is discontinued, the condition will worsen. Consequently, this lead to introduction of a novel sustained treatment for PWS.
- I am currently conducting research that aims to use Convolutional Neural Networks (CNNs) to predict the numerical and visual success rate of laser treatment for birthmarks, by leveraging the relationship between the position and colour of the marks and the treatment's effectiveness.

UNIVERSITY OF LIVERPOOL | Research Assistant

June 2020 – Aug 2020 | Liverpool, UK

Aug 2022 – Present | Liverpool, UK

- Research focused on maximizing the efficacy of tomography reconstruction via the employment of classification Convolutional Neural Networks (CNNs) to identify the best angles for 3D nanowire reconstruction. This is based on the sinograms of the 2D slices of the nanowires.

Projects

IMPROVING DDPG | Python, Numpy,PyTorch

2020

- For my thesis I've implemented & improved stability and convergence of reinforcement learning algorithm DDPG using Stochastic Weighted Average & One-Cycle methods.

MONET ME THIS | Python, Numpy, PyTorch

2022

- I re-implemented CycleGAN and applied Differential Augmentation, training on Kaggle's Dataset to create a game that tests players' ability to differentiate between authentic paintings created by Claude Monet and AI-generated paintings.

Skills

PROGRAMMING

Proficient:
Python • SQL • Java

Experienced:
JavaScript • Shell

Familiar:
Prolog • LaTeX • C++

FRAMEWORKS

Pandas • PyTorch & Tensorflow
Matplotlib • SpringBoot • React

TOOLS

Git • Jenkins
Docker • Linux(CentOS)

Education

UNIVERSITY OF LIVERPOOL

Bachelor's in Computer Science and Mathematics

2017 - 2020 | Liverpool, UK

First Class (Honours)

TADEUSZ CZACKI'S HIGH SCHOOL

Extended Mathematics, English and Physics

2014 - 2017 | Warsaw, Poland

A*AB accordingly

EXTRA-CURRICULAR

TABLE TENNIS CLUB

Team Captain
Social Welfare Officer

2018 - 2019 | University of Liverpool, UK

LANGUAGES

Polish
English

HOBBIES

Sports

Basketball, Running & Martial arts

Relaxation

Dancing, Books & Guitar