

Szczekulski Jan

Data Scientist/Software Engineer

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EXPERIENCE

THE HUT GROUP | GRADUATE DATA SCIENTIST LOGISTICS

June 2021 – Current | Manchester, UK

- Developed a company-wide demand forecast using scikit-learn, SQL & Pandas.
- Set up multiple virtual machines used to run automated demand forecasts.
- Set up multiple automated pipelines via Jenkins & Python.
- Guided new starters & conducted/supported multiple interviews

THE HUT GROUP | GRADUATE DATA SCIENTIST EXPERIMENTATION

Sept 2020 – June 2021 | Manchester, UK

- Conducted multiple A/B/n experiments, saving company an estimated £1 million/year.
- Used SQL, Python, Pandas and Matplotlib to analyse further multiple experiments. Drove valuable insights about tested features.
- Automated multiple systems using Jenkins and Python. Significantly decreased team's repetitive work.
- Implemented time-series model predicting app revenue using scikit-learn, numpy & SQL.

UNIVERSITY OF LIVERPOOL | SUMMER RESEARCH ASSISTANT

June 2020 – Aug 2020 | Liverpool, UK

- Furthered my knowledge of machine learning & neural networks used for vision tasks - especially U-nets.
- Applied convolutional neural networks to geometric reconstruction in electron tomography, an idea based on the following paper.

PROJECTS

IMPROVING DDPG WITH SWA FINANCIAL APPLICATIONS | PYTHON, NUMPY, PYTORCH

2020

- Implemented reinforcement learning algorithm DDPG using PyTorch, based on the following paper.
- Improved the stability of normally unstable DDPG using Stochastic Weighted Average from following research paper.
- Further improved neural network's convergence by implementing one cycle policy algorithm from following research paper.

ML MODELS IMPLEMENTATIONS FROM SCRATCH | PYTHON, NUMPY, SCIKIT-LEARN

2017-2021

- **Supervised:** Support Vector Machine • Linear Regression • KNN • Naive Bayes classifier
- **Unsupervised:** K-means • principal component analysis
- Implemented perceptron as well as simple neural network from scratch.

MEDICAL RESEARCH | PYTHON, PANDAS, MATPLOTLIB

2021-present

- I'm supporting the research of the efficacy of long term treatment of port-wine stain birthmark using Nd:YAG laser with large spot.
- Used patients data to generate meaningful metrics and find patterns in treatment.
- Applied statistical tests such as MANOVA, welch test or chi-squared test to provide evidence for previously found patterns.

SKILLS

PROGRAMMING

Proficient:

Python • SQL • Java

Experienced:

JavaScript • Shell

Familiar:

Prolog • L^AT_EX • 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