

# Szczekulski Jan

Data Scientist

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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 supervised neural network

## SKILLS

### PROGRAMMING

Proficient:

Python • SQL • Shell

Experienced:

Java • JavaScript • HTML

Familiar:

Prolog •  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  • C++

### LIBRARIES/Frameworks

Pandas • Numpy • Matplotlib  
PyTorch • Scikit-Learn • React

### TOOLS/PLATFORMS

Git • Jenkins • Postman  
Linux(CentOS) • Kubernetes

## EDUCATION

### UNIVERSITY OF LIVERPOOL

BACHELOR'S IN COMPUTER SCIENCE  
AND MATHEMATICS

2017 - 2020 | Liverpool, UK

First Class (Honours)

### TADEUSZ CZACKI'S HIGH SCHOOL

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, Table Tennis & Windsurfing

RELAXATION

Cooking, Video Games & Guitar