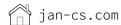
# Szczekulski Jan

# 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 milion/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 repetetive 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 • Shell

Experienced:

Java • JavaScript • HTML

Familiar:

Prolog • LATEX • 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