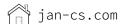# Szczekulski Jan

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
2016-2021

- → **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 • LATEX • C++

LIBRARIES/FRAMEWORKS

Pandas • Numpy • Matplotlib
PyTorch • Keras • React

TOOLS/PLATFORMS

Git • CentOS(Linux) • Jenkins
Kubernetes • Postman

EDUCATION

UNIVERSITY OF LIVERPOOL
BACHELOR'S IN COMPUTER SCIENCE
AND MATHEMATICS
2016 - 2020 | Liverpool, UK
First Class (Honours)

TADEUSZ CZACKI'S HIGH SCHOOL
MATHEMATICS, ENGLISH AND
PHYSICS
2013 - 2016 | 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