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