JEROEN VAN LIER

Data Scientist | ML Engineer | Data Engineer

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A dynamic and dedicated data scientist with over 4 years of hands-on experience, I have designed, deployed, and refined a diverse range of machine learning and reinforcement learning models, specializing in Python. Leveraging my 7-year background in geology, I've pivoted my technical and analytical skills to data science, bringing a unique perspective to problem-solving and analysis. I am passionate about learning and committed to staying informed about emerging technologies.

Skills

Languages:	Python, SQL, Git
Python Libraries:	NumPy, SciPy, Pandas, PySpark, Matplotlib, Seaborn, Gym
Python ML Libraries:	Scikit-Learn, XGBoost, PyTorch, Keras, Ray[RLLIB]
Platforms:	Visual Studio Code, Docker, Jupyter, Gradient, Azure, AWS S3, PythonAnywhere, Github

Experience

Flash | Cape Town, South Africa   06/2021 - Present
Data Scientist

- Implemented time-series analysis for outlier detection, predicting and reducing monthly fraudulent activity by €20,000
- Analysed traders with high-risk of churn, implementing various targeted strategies that increased retention rates by 25%
- Devised the data science workflow, automating CI/CD pipelines using Docker and Azure, effectively enabling production
- Developed a predictive model to optimise loan and fee amounts, strategically reducing financial risk and amplifying profits

Omdena | Remote   09/2023 - Present
Machine Learning Engineer

- Collaborated with an international team to predict food prices in Nigeria, guiding famine prevention and resource allocation
- Engineered features and integrated an XGBoost model pipeline into an interactive tool for real-time analysis

Quant Analytics | Remote   03/2023 - Present
Data Engineer

- Maintain data streams for data storage in AWS S3 buckets as well as triggers for processing data for retraining algorithms
- Managed cloud computes for retraining of reinforcement learning algorithms as well as API endpoints for trained models

Quant Analytics | Remote   12/2020 - 02/2023
Data Scientist

- Constructed a reinforcement learning DQN agent trained on various option strategies outperforming benchmarks by 300%
- Engineered an options trading prediction tool focused on earnings, achieving an accuracy of 93% success
- Deployed the model to the cloud generating real-time predictions for 446 stocks and facilitated personalised Telegram alerts

Ironhack | Amsterdam, The Netherlands   12/2020 - 03/2021
Data Analytics Teaching Assistant

- Mentored students through complex boot camp challenges related to statistics, data analysis and machine learning
- Provided project guidance by offering feedback on coding practices and sharing insights into data analytics
- Assisted the lead instructor and facilitated online icebreakers and team events

MapXact | Harfsen, The Netherlands   06/2018 - 09/2020
Research Geophysicist

- Led the research department, collaborating with two universities to investigate the limitations of ground-penetration radar
- Advised on the integration process of artificial intelligence to automate the interpretation of geophysical data
- Mentored PhD students and assisted teams in understanding and interpreting geophysical data

Education

Deep Reinforcement Learning	Nanodegree	Udacity	Remote	2022
Data Analytics & Machine Learning	Bootcamp	Ironhack	Amsterdam, The Netherlands	2020
Geology	Master of Sciences	Ludwig-Maximilian University	Munich, Germany	2017