

Jurriaan Engels

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Work Experience

Associate II (Data Scientist) – PwC – Amsterdam, The Netherlands. Sep 2023 - Present

- ECB Financial Reporting Tool, Large International Bank – Responsible for delivering an all-purpose full-cycle model validation tool containing general functionality for up-to-date internal, annual validation and ECB reporting regulations written in SAS, Python (PySpark), using Git and Azure DevOps.
- IFRS9 Model Maintenance, Large National Bank – Responsible for maintaining and updating several models whilst adhering to IFRS9 standards.
- IFRS9 Model Development & Monitoring Auditor, Several (International) Banks – Responsible for assisting audit teams in delivering expert knowledge on various IFRS9 models, from model development to model monitoring frameworks and performing relevant assessments.
- A.I. Trainings & IFRS9 Trainings, PwC – Lead, responsible for creating and presenting several Artificial Intelligence/Machine Learning and separate IFRS9 trainings for the Regulatory Transformation team and the bigger Risk & Regulation team of 100 people.
- Data Lead for an Interactive Risk Management Tool, Large International Company – I was one of the key leads in enrollment of a 1mil new risk management tool used by 300+ users around the globe (24/7). I was mainly in charge of: data governance, stakeholder management, user access and innovation.
- Smaller side projects: proposals (all won), Market Risk Analysis of XvA's, data pipeline auditing, social events, AI hackathon.
- Various PwC trainings: Intersession, Feedback, Resilience, Personal Leadership.

Data Scientist Graduate Intern – TNO – The Hague, The Netherlands. Sep 2021 – May 2022

- Researched privacy enhancing techniques in the field of graphical transaction data to generate privacy preserving data.
- Communicated with three professional data scientist supervisors from TNO, supervisor at the UvA and two professional data scientists at two big financial institutions on my findings and setting quality metrics for a possible model.
- Created a generative deep learning model using Tensorflow and Keras on a big data transactional dataset in Microsoft Azure Databricks using the Apache Spark API.

Education

Master of Science in Mathematics – University of Amsterdam – Amsterdam, The Netherlands. Sep 2019 – May 2022

- Statistical Data Analysis, Advanced Machine Learning, Dynamic Programming and Reinforcement Learning.

Bachelor of Science in Mathematics – University of Amsterdam – Amsterdam, The Netherlands. Sep 2016 – June 2019

Hard Skills

- Python (Pandas, Polars, Tensorflow, Keras, Numpy, Matplotlib, Plotly Dash, Folium, SciKit-Learn, SciPy, BeautifulSoup, NetworkX, SQLite)
- Excel (PowerQuery, VBA)
- (Statistical) Programming Languages: SAS (CAS & Viya), R, SQL, Matlab
- Version Management: Git, Azure DevOps, Github, Jira, BitBucket
- Deployment & Storage: DataBricks
- Big Data Data Processing Engine: Spark (PySpark, Spark SQL, SystemML)

Data Science Side Projects

- **Interactive Spotify Music Knowledge Dashboard** – Packages used: Plotly, Dash, SQLite. Data used: Spotify data.
- **Supermarket Price Application** – Packages used: BeautifulSoup, Pandas, SQLite, GPT API. Data used: publicly available data from AH Jumbo, Dirk and Lidl.
- **Amsterdam PowerBI Airbnb Insight Project** – Packages used: Pandas and Power Query. Data used: Amsterdam Airbnb data.
- **Machine Learning Seoul Bike Project** – Packages used: Scikit-learn, Keras. Data used: Seoul Bike Sharing.

Extra Curricular Activities

Working Out, Side Coding Projects, Chess, Bartending.