Junior Data Scientist /
Junior Data Analyst in Amsterdam or Berlin.

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# Jurriaan Engels

#### **Skills**

- Python (Pandas, Tensorflow, Keras, Nump Matplotlib, Plotly, Dash, Seaborn, Folium, SciKit-learn, SciPy, Beautifulsoup, NetworkX)
- Jupyter Notebook, JupyterLab
- Excel
- Spark (PySpark, Spark SQL, SystemML)
- VBA, Microsoft Office

- Rstudio
- SQL (Microsoft SQL Server, MySQL, SQLite)
- HTML. CSS
- Microsoft Power BI
- Microsoft Azure (Databricks)
- Git

# **Projects**

## INTERACTIVE SPOTIFY MUSIC KNOWLEDGE DASHBOARD - Personal Project

Mar 2023

- Used **Python (Plotly, Dash)** to make a highly interactive <u>dashboard</u> on Spotify data taken from Kaggle to gain insights in popular music from the past two decades.
- Performed ETL on the spotify dataset using **Pandas** and **SQLite** to create three new dataframes, visualized the dataset using a number of charts with **Matplotlib, Seaborn** and **Plotly.express**, and found interesting music facts with EDA.

#### DATA SCIENCE SUPERMARKET PRICE APPLICATION - Personal Project

Mar 2023

- By webscraping (BeautifulSoup) unstructured Dutch supermarket data, I obtain datasets on all supermarkets. I will use these datasets to make an application in which supermarket customers can compare prices of certain products, ingredient lists and full-on recipes.
- To highlight some interesting findings, I will use Tableau Public.

#### AMSTERDAM POWERBI AIRBNB INSIGHT PROJECT - Personal Project

Mar 202

• After ETL the recent Amsterdam Inside Airbnb dataset, I am going to use **Microsoft PowerBI** to highlight a number of interesting insights about the current situation of renting airbnbs in Amsterdam. Customers of airbnb can use this dashboard as a tool of finding the best spots in Amsterdam to rent an airbnb.

#### **Work Experience**

### JUNIOR CONSULTANT (DATA SCIENCE TRAINEESHIP) - A.S.R. (House of Bèta) - Utrecht, The Netherlands

Dec 2022 – Feb 2023

- Building sustainable relationships and trust with customer accounts through open and interactive communication while following communication procedures, guidelines and policies.
- Providing both specific content-related and general information about products, policies and services of life insurances at A.S.R.

## **DATA SCIENCE 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 Courses: Statistical Data Analysis, Advanced Machine Learning, Dynamic Programming and Reinforcement Learning. BACHELOR OF SCIENCE IN MATHEMATICS – University of Amsterdam – Amsterdam, The Netherlands

Sep 2019 – May 2022

Sep 2016 - June 2019

# **Certificates**

AGILE SCRUM FOUNDATION - Basic fundamentals of agile and scrum project management techniques.

MACHINE LEARNING A TO Z – Course on data preprocessing, regression, classification, clustering, RL, NLP, Deep learning, Dimensionality Reduction and Model Selection in Python and Rstudio.

**IBM DATA SCIENCE PROFESSIONAL CERTIFICATE** (9.4) – IBM course in which I developed hands-on skills using the tools, languages and libraries used by professional data scientists, ETL techniques, visualization tools, building and evaluating machine learning models and pipelines using real-world data and publishing a report for stakeholders.

**IBM ADVANCED DATA SCIENCE** (ongoing) - IBM course in which I am learning how to build fully scalable end-to-end data integration tools, deep learning pipelines, learning how to use Apache Spark, SparkML, Tensorflow, Keras, Pytorch, Deeplearning4j, Apache CouchCB, MQTT.