Kevin Südmersen

Data Scientist

Info

Date and place of birth: 8th January 1993 in Bad Oeynhausen, Germany
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Technical Skills

Technology	Skill level	Experience
Python	Advanced	Constant use of Python on the job, using libraries such as scikit-learn, tensorflow-2.0 (and hence keras), matplotlib, seaborn, plotly, numpy, pandas, Tableau-Server-Client, Sqlalchemy, Apache Airflow, Pymongo, TA-Lib, NLTK
R	Intermediate	Empirical university projects (including MSc dissertation) implemented in R, experience with libraries such as dplyr, ggplot, keras, rpart, e1071
SQL	Intermediate	Using SQL for ad-hoc queries and mostly in conjunction with the Sqlalchemy library
Docker	Intermediate	Used Docker for deployment of software, using the DockerOperator of Apache Airflow in various projects
MS Office	Intermediate	Continuous use of MS Excel, MS PowerPoint and MS Word
LaTeX	Basic	E.g. MSc dissertation written in LaTeX
HTML	Basic	Used HTML to display reports of results

Working Experience

• breos GmbH, Stuttgart, Germany   **(November 2018 - present)**

Company description: breos GmbH provides business intelligence services using data visualization tools and Machine Learning models

Role: Data Scientist

Tasks: Writing three blog posts about Natuaral Language Processing (1. sentiment analysis, 2. word embedding visualization, 3. the Google Transformer explained) to generate more traffic on the company's website, implementation and deployment of a workflow automation software using the Tableau-Server-Client API, developing ETL processes with Apache Airflow to create a data warehouse, implementing an early warning system using image classification algorithms for a car manufacturing company

• STOXX Ltd., Frankfurt, Germany   **(Apr. 2017 − Jun. 2017)**

Company description: STOXX Ltd. is a subsidiary of the Deutsche Börse AG and provides customized indices and iNAVs. One of the most prominent products of STOXX is the Deutsche Aktienindex (DAX)

Role: Intern in the Business Architecture service line

Tasks: Assisting with the migration of an old IT system (XIS Web) to a new IT system (Linux) which is now being used to calculate the DAX, visualizing and modelling of percentage filtering used for iNAV calculations, documentation and communication of the index work-flow, setting up new iNAV projects, creation of Excel templates to speed up recurring tasks

- **Ernst & Young, Berlin, Germany**   **(Sep. 2015 - Jan. 2016)**

  Company description: Ernst & Young (EY) is a business consulting company and in addition to auditing, EY also provides advisory services

  Role: Intern in the M&A, Transaction Support, Corporate Finance Strategy, Valuation & Business Modelling service lines

  Tasks: Finding potential investment targets, creating presentations, data books and peer groups, researching financial data, conducting quality checks, assisting with a market multiple valuation

- **Other relevant experience**

  Predicting Bitcoin Prices 2.0 - Is attention really all we need?
  In this private, trial project, I am training a Natural Language Processing model, the Transformer, on text data scraped from the Reuters Business News Archive and another time-series model on Bitcoin transaction data. After both models have been trained separately, I am combining the predictions of both models in a meta model to generate the final Bitcoin price predictions. In the end, I am planning to automate the whole process with Apache Airflow. For more details click here.

Education

- **Online MSc[1] in Data Science (part-time)**   **(Oct. 2019 - Oct. 2022)**

  Where: Hochschule Abstadt-Sigmardingen (in cooperation with University of Mannheim), Germany

  Description: This part-time MSc is designed in such a way that students can combine it with a full-time job. It has an estimated workload of 10-15 hours per week, students can consume the learning material online at any times, and except for a few weekends per year, students do not have to physically attend classes. More information can be found here

  Current average grade: 1.35 (German grading system)

- **MSc in International & Financial Economics**   **(Sep. 2017 - Sep. 2018)**

  Where: University of Warwick, England

  Subjects: Applications of Data Science, Mathematics and Statistics, Econometrics, Game Theory, Microeconomics, Macroeconomics, Monetary Economics

  Grades: Graduated with merit, MSc degree certificate with grades

  Dissertation: "Predicting Bitcoin Prices - Can Machine Learning Algorithms Help?" (with distinction)

- **Minor in International & Monetary Economics**   **(Sep. 2016 - Feb. 2017)**

  Where: University of Amsterdam, Netherlands

  Description: I voluntarily took this course as a preparation for my master's in England

  Subjects: Principles of Economics, Mathematics, International Money & Banking, International Trade, Monetary & Fiscal Policy

  Grades: Final average grade: 7.4, minor certificate with grades

- **BBA[2] in International Business & Management**   **(Sep. 2012 - Dec. 2016)**

  Where: University of Applied Sciences Amsterdam, Netherlands

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[1] Master of Science
[2] Bachelor of Business Administration

Grades: 7.64 excluding foundation year, [BBA degree certificate with grades](#)

Standard period of study: 8 semesters due to internship and exchange semester

Exchange semester: Hanyang University, Seoul, Korea (February 2015 - June 2015)

Dissertation: "How to create a profitable business strategy selling Fairness Opinions"[3]

Other

Entrepreneur: Founder and owner of Bootcamp Inc. (Apr. 2014 - Jun. 2015)

English language test certificates: IELTS test result in 2016: 7.5 out of 9, TOEFL test result in 2019: 100 out of 120

Languages: German (first language), English ([level C2](#)), Dutch ([level B2](#))

Characteristics: Friendly, enthusiastic, disciplined, respectful, persisted, result-oriented

Sporting Achievements: Winner of the WAKO Dutch Open in light contact kick-boxing -79Kg in 2016, winner of the WAKO Dutch National Championships in light contact kick-boxing -75Kg in 2014

Interests: Taekwondo (red belt), Karate, Kick-boxing, running, skiing, travelling

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[3]A Fairness Opinion is an independent evaluation of a take-over offer