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MARK KÖRNER

Graduate Student

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EDUCATION

M.Sc. Data Engineering
Jacobs University
GPA: 1.31 (*US*: 3.69)
Computer Science Track
Thesis Topic: Graph Representation Learning for Cyber Threat Intelligence
Coursework: Machine Learning, Data Analytics, Data Mining, Big Databases and Cloud Services, Data Visualization & Image Processing

📅 Aug 2018 – To Date
📍 Bremen, Germany

B.Sc. Business Administration
Babson College
GPA: 1.74 (*US*: 3.26)
Concentrations in Business Analytics and Quantitative Methods

📅 Aug 2014 – May 2018
📍 Wellesley, MA, USA

EXPERIENCE

Consultant - Working Student
KPMG Lighthouse - Data & Analytics

📅 Oct 2019 – Present
📍 Bremen, Germany

- Developed several financial valuation SaaS solutions for calculations like the pre-deal Purchase Price Allocation (PPA) on the KPMG Sofy Analytics platform
- Assumed a leadership role in an agile team setting while working on front- and back-end development in T-SQL, Javascript, HTML & CSS

Data Science Intern
Next Kraftwerke

📅 June 2019 – Aug 2019
📍 Cologne, Germany

- Developed a scalable live forecasting framework for photovoltaic plants with a focus on accuracy and stability for multi-period predictions
- Implemented a uniform solution for a majority of the individual plants in the company's portfolio

Quantitative Methods Tutor
Babson Math Resource Center

📅 Sept 2016 – May 2018
📍 Wellesley, MA, USA

- Assisted students with their work in introductory and mid-level statistics courses
- Communicated statistical concepts to students in a concise and simplified manner to strengthen their understanding

Data Analytics Intern
Next Kraftwerke

📅 June 2017 – Aug 2017
📍 Cologne, Germany

- Analyzed the efficiency and profitability of current assets and product offerings to suggest possible strategic improvements to the current portfolio
- Developed several machine learning models in Python to estimate wind power generation in Germany and reported findings to the Head of Energy Trading

MCFE Student Consultant
SV Post Horn

📅 Jan 2017 – May 2017
📍 Wellesley, MA, USA

- Communicated with the Austrian football club in order to identify opportunities to increase ROI in the areas of branding, sponsorship and ticket revenue
- Recommended research-based strategic improvements to the client leading to improved performance in the following season

RELEVANT PROJECTS

Graph Representation Learning for Cyber Threat Intelligence
Master Thesis

📅 August 2020

- Created graphs from semi-structured data from five different sources to assess similarity of several CTI entities
- Utilized skip-gram and auto-encoder graph neural networks to calculate entity similarity from node and sub-graph embeddings

Bremen Big Data Challenge
Data Mining

📅 March 2019

- Participated in a Machine Learning competition for Human Activity Recognition from sensor data
- Reached 95%+ classification accuracy for the 22 distinct movements using Random Forests and Convolutional Neural Networks

SKILLS

VERY GOOD

| Python | SQL | GitHub | Microsoft Suite |

GOOD

| R | Azure DevOps | Tableau | Javascript |
| HTML & CSS | LaTeX |

BASIC

| Matlab | Gephi | Google Analytics |

LEADERSHIP

Event Coordinator
JU Graduate Student Association
Responsible for organizing Orientation Week as well as other periodic social events and meetups

Vice President
Babson Mens Club Basketball
Coach, Team Manager and Player

LANGUAGES

German	Native
English	Native
Spanish	A1