Julius von Rohrscheidt

Resumé

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Personal Details

Name	Julius von Rohrscheidt
Date of Birth	21.01.1994
Place of Birth	Warendorf
Nationality	German

Professional Experience

Mar. 2022 – today
Doctoral Researcher, *Helmholtz Munich*, Munich, Germany.
Research on Topological Data Analysis and Topological Machine Learning to improve methods in Biomedical Data Science.

Aug. 2020 – Jan. 2022
Data Analyst, *raumobil GmbH*, Karlsruhe, Germany.
Definition of KPI's for customer behavior measurement, automated reporting in MS Power BI, customer journey analytics, traffic flow prediction, Data Warehouse architecture design and construction, personalized services for mobile app end-users in the domain of mobility.

Education

Mar. 2022 – today
PhD Candidate: Mathematics, *Technical University of Munich*, Germany.
Focus of Interest: Theoretical guarantees for noise-robust Topological Representation Learning.

Mar. 2017 – Mar. 2019
Studies: Mathematics, *Ruprecht-Karls Universität Heidelberg*, Germany.
Qualification: M.Sc. Mathematics;
Focus of Interest: Algebraic Topology for Singular Spaces, Topological Data Analysis, Machine Learning.
Title of Thesis: *Bordism, Basic Sets and Intersection Homology.*

Oct. 2012 – Oct. 2016
Studies: Mathematics, *Ruprecht-Karls Universität Heidelberg*, Germany.
Qualification: B.Sc. Mathematics;
Focus of Interest: Modular Forms, Statistical Data Analysis, Machine Learning.
Title of Thesis: *Atkin-Lehner-Theorie für Kongruenzuntergruppen.*

Aug. 2004 – Jul. 2012
Secondary School, *Max-Born-Gymnasium*, Neckargemünd.
Qualification: A level

Project Experience

Apr. 2019 – Mai 2019
Text Analysis Project in Python, *Topic Modeling with Latent Dirichlet Allocation for the classification of Tweets.*

| Mai 2019 – Jul. 2019 | **Sports Prediction Project in Python**, *Bayesian Ensemble Modeling for the prediction of tennis match outcomes*. |

Skills

Hard Skills	Experience in Data Wrangling, Descriptive Statistics, Artificial Neural Networks, Bayesian Inference, Regression, Classification, Clustering, Text Analysis, Text Mining, Data Pipelining, Automated Reporting
Programming and Tools	Python (NumPy, Pandas, Matplotlib, Sklearn, xgboost, pymc3, NLTK, Gensim, Keras), Azure Data Factory, Git, SQL
Soft Skills	Problem Solving, Critical Thinking, Creative Thinking, Communication, Collaboration, Active Learning
German	Native speaker
English	Very good knowledge, spoken and written.

See https://nbviewer.jupyter.org/github/julius-vr/ for a collection of projects that use some of the above mentioned tools.

Munich, April 6th, 2022   Julius von Rohrscheidt