



Daniel Banciu

M.Sc. Computer Science

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Skills

Backend Development	Frontend Development
Java, Python, Springboot/ VertX, REST	ReactJS, HTML/CSS

Machine Learning	Data Science
Classification, Regression, Vision-Transformers, deep-learning-weather-prediction models, CNN	explainable AI, Correlation, Patterns

Awards

Deutschlandstipendium (scholarship) 2019-2020

Languages

German	Romanian
Native	Native
■■■■■	■■■■■
English	Italian
Fluent	A2/B1
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Recent Master's graduate from the University of Tübingen with a focus on data science. I run a side business as an external data protection consultant. I have been working as a software developer since 2019, both full-time and part-time. I bring strong communication skills and ambition to my work.

For more details on my CV and projects, please visit my website.

Profiles

dbanciu

in daniel-banciu

Education

University of Tübingen	October 2021 - April 2024
Computer Science	Master of Science
https://uni-tuebingen.de/en/	
Tübingen, Germany	
Heilbronn University of Applied Sciences	September 2017 - August 2021
Software Engineering	Bachelor of Science
https://www.hs-heilbronn.de/en	
Heilbronn, Germany	
Immanuel-Kant-Gymnasium	2009-2017
	High School
Leinfelden-Echterdingen, Germany	

Experience

Vector Informatik GmbH	November 2020 - March 2023
Software Developer	Stuttgart, Germany
https://www.vector.com/de/de/	
Bachelor Thesis, Full-Time between Bachelor's and Master's, working student.	
eXXcellent solutions consulting & software GmbH	August 2019 - November 2020
Software Developer	Stuttgart, Germany
https://www.exxcellent.de/	
Internship and working student.	
Own small Side Business	April 2018 - Present
External data protection consultant	
External data protection consultant and IT consultant specialised for dentists .	

Theses

Exploring Latent Representations for Identifying Forecasting Opportunities in Deep Learning Weather Models	2023-2024	Predictive Analysis of Electric Vehicles during Charging to Optimize Load Management Algorithms	2021
Master Thesis	Tübingen, Germany	Bachelor Thesis at Vector GmbH	Heilbronn, Germany
Investigated the predictive capabilities of FourCastNet, a deep learning weather prediction model, focusing on its utilisation of the Madden-Julian Oscillation (MJO) for enhancing weather forecast accuracy. Analysed predictive performance metrics such as root-mean-square-error and anomaly correlation coefficient.		Developed a critical feature for the vCharM system by Vector Informatik GmbH to enhance load management in electric vehicle charging networks. This feature involved gathering and analyzing vehicle charging data to refine load management algorithms, thereby optimizing power grid operations in residential and company settings.	
Data Science, Machine Learning, Python		Java, FullStack	

Volunteering
Digitale Sprechstunde 2020 Stuttgart, Germany Helping old people with all IT-related things such as setting up their smartphone and explaining how to write e-mails etc.. Jugendgemeinderat (local politics youth council) founding member 2016 Leinfelden-Echterdingen, Germany

Interests

Karate	Jiu Jitsu
E-Sports	Gym

Projects			
Fair Machine Learning Seminar Course at Tübingen Evaluation the effectiveness of attribution methods for tabular data. Comparing the performance of SHAP and LIME attribution methods. Using a transformer-based language model, known as GReaT. Machine Learning, explainable AI	2023	Pose Estimation Machine Learning Course Project of "ML and Vision" at Tübingen As part of the course "Praktikum Bildverarbeitung, Maschinelles Lernen und Computer Vision" we show how we developed a pytorch implementation of the paper 'Toward fast and accurate human pose estimation via soft-gated skip connections'. Machine Learning, CNN, PyTorch	2022
NLP Analysis Course Project of "Data Literacy" at Tübingen Analysis of an unknown data set in a project in teams of two. We analysed every speech in the Bundestag and tried to answer questions like "How has the language developed?" Data Science, NLP	2022		

Self Driving Cars Machine Learning Challenges Self Driving Cars course at Tübingen Challenges involved imitation learning and reinforcement learning using the car gym environment. Machine Learning, PyTorch, Imitation Learning, Reinforcement Learning	BUGA 2019 App Bachelor's "big project" at Heilbronn Development of an application for the Bundesgartenschau 2019 in Heilbronn as part of the big project in the 5th semester of the bachelor's degree. Fullstack, Java, React, Scrum
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