Daniel Banciu

M.Sc. Computer Scence

Steinenbronner Str. 15, 71101 Schönaich, Germany

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www.dbanciu.github.io

Skills

Backend Development

Java, Python, Springboot/ VertX, REST

Frontend Development

ReactJS, HTML/CSS

Machine Learning

Classification, Regression, Vision-Transformers, deep-learning-weather-prediction models, CNN

Data Science

explainable AI, Correlation, Patterns

Awards

Deutschlandstipendium (scholarship) 2019-2020

Languages

German
Native

Romanian
Native

English
Fluent

Italian
A2

Newly graduated Masters student at the University of Tübingen. I am running my own business as an external data protection consultant. Been working both full time and part time as a software developer since 2020. I am very communicative and ambitious.

Profiles

dbanciu
GitHub

daniel-banciu
LinkedIn

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 — **February 2020 - October 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**, Tübingen, Germany
Master Thesis

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.

Data Science, Machine Learning, Python

Predictive Analysis of Electric Vehicles during Charging to Optimize Load Management Algorithms — **2021**, Heilbronn, Germany
Bachelor Thesis at Vector GmbH

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.

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 2023
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

Pose Estimation Machine Learning 2022
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

NLP Analysis 2022
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

Self Driving Cars Machine Learning Challenges 2023
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 2019
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