

Can Bogoclu, PhD

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personal summary

Lang.: Turkish,
English, German

Nation.: Turkish

Legal: EU Blue
Card for Germany

7+ years of experience in machine learning • **small data** and **active learning** expertise
• experience with **big data** and **distributed training** • highly skilled at visualization •
endless love for learning and teaching • secret crush on **reinforcement learning**

experience

Applied Scientist

Zalando SE

since July 2022

- Probabilistic fulfillment and delivery time estimation
- Significant accuracy and precision improvement already in the second month
- Distributed training on AWS using workflows and step functions
- Agile team and methodology

skills

machine learning

Probabilistic and
deep learning

Reinforcement
learning

Bayesian
optimization

Uncertainty
quantification

Hypothesis testing

Associate Lecturer

Niederrhein University of Applied Sciences

Oct. 2019–Sep. 2022

- Math for first year engineering students (1 semester)
- Computer science for engineering students (2 semesters)
- Introduction to Machine Learning for computer science students (1 semester)
- Probabilistic machine learning for engineering students (1 semester)
- Mentored a PhD student

development

Python | 8+ yrs

bash | 6+ yrs

git | 4+ yrs

Javascript | 1+ yrs

(Senior) Software Developer and Data Scientist

Probaligence GmbH

Sep. 2018–June 2022

- STOCHOS, an automated machine learning module for engineers.
Flavors: python module, web-based GUI, ANSYS optiSlang add-in.
- KILu, AI research for aviation, partner: German Aerospace Center (DLR).
Topics: material modelling, geometric mesh analysis
- RLTC, RL for trajectory control, partner: ZF Friedrichshafen AG.
Task: Uncertainty aware reinforcement learning for autonomous vehicles
- iFoot, intelligent bandage for diabetic foot.
Tasks: Smart watch app, Web servers for data pipeline and patient tracking

tools

tensorflow, torch

jax, scikit-learn

xgboost

pandas, dask

matplotlib, dash

seaborn, plotly

django, selenium

ray, dvc

pytest, nose

unittest

AWS Lambda/Step

docker

Research Assistant

Niederrhein University of Applied Science

Jan. 2015–Oct. 2019

- MeZuMe, electric motor uncertainty optimization, partner: *Bosch GmbH*
- Learning from vector and field data for structural anomaly detection
- High-performance computing cluster administration

education

PhD Mechanical Engineering, Ruhr-Universität Bochum

2015–2022

Thesis: *Machine learning accelerated design uncertainty optimization*

Diplom (B.Sc. + M.Sc.) Mechanical Engineering, RWTH Aachen

2006–2014

Thesis: *Modelling and experimental validation of hydraulic pump housings*

databases

SQLite | 2+ yrs

postgresql | 1+ yrs