Can Bogoclu, PhD

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personal

Lang.: Turkish, English, German

Nation.: Turkish

Legal: EU Blue Card for Germany

skills

machine learning

Probabilistic and deep learning

Reinforcement learning

Bayesian optimization

Uncertainty quantification

Hypothesis testing

development

Python | 8+ yrs
bash | 6+ yrs
git | 4+ yrs
Javascript | 1+ yrs

tools

tensorflow, torch jax, scikit-learn xgboost

pandas, dask

matplotlib, dash seaborn, plotly

django, selenium

ray, dvc

pytest, nose unittest

AWS Lambda/Step docker

databases

SQLite | 2+ yrs
postgresql | 1+ yrs

summary

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

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

(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

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*