Curriculum Vitae

Personal details

Name	Amadeu Manfred Scheppach
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Education

04/2020-01/2022 **Master Statistics (LMU)** - ∅ 1.68 (GPA 3.3)

- Focus on Machine Learning, Deep Learning and AutoML
- Projects with Python, R, and Matlab

Work Experience

Since 04/2022 **Junior Data Scientist, Cognizant Mobility**

- Here I am working in three different positions/teams, namely data science, software development and operations.

Data Science

- Working on an NLP project where we are developing an MLOps pipeline for ticket classification
- Using different NLP algorithms and also a variety of AWS services, such as Lambda, Sagemaker, EC2, S3, ECR, as well as Step Functions
- Install, build and run docker containers with AWS

Software Development

- Working on the BMW eSIM backend system
- Solving defects as well as implementing new features with Java
- Further skills: Kubernetes, Cloud (AWS), CI/CD, DevOps, Git Workflows

Operations

- Solving incidents by using SQL, PL/pgSQL, as well as AWS Services

05/2021-11/2021 **Master student, Helmholtz-Zentrum für Infektionsforschung** - Grade 1.3 (GPA 3.7)

- Implemented new algorithms (based on popular NAS methods for image classification and NLP) in the field of bioinformatics to find the optimal Deep Learning architecture in an automated way (using Python and PyTorch)
- Built novel NAS methods (OSP-NAS, CWP-DARTS, DEP-DARTS)
- We aim to publish part of the work at the upcoming AutoML conference

12/2018-06/2020 **Working student Data Analytics, Interhyp AG**

- Built predictive models to identify error-sources in the tracking system (using R)
- Customer Journey Analysis (using Tableau)

Further programming skills & projects

04/2021-08/2021 **Applied Deep Learning with TensorFlow and PyTorch** - Grade 1.0 (GPA 4.0)

- Implemented the SCINet architecture, based on the paper „Time Series is a Special Sequence: Forecasting with Sample Convolution and Interaction“ (using Python and PyTorch)

08/2020 **Hackathon Fraunhofer Institute**

- Pattern recognition for sensor data (time series clustering)
- Implemented Non-parametric Hidden Semi-Markov Models (with physmm library in Python)

05/2020-08/2020	**Reinforcement Learning** - Grade 1.3 (GPA 3.7) - Implemented the Deep Reinforcement Learning algorithm PPO (using Python and OpenAI environment)
12/2019-05/2020	**Bayesian Optimization for Material Science** - Grade 1.3 (GPA 3.7) - Built the package „EBO“, designed for material science (using R) - Enables chemists and researches a better understanding of their optimization and simulation: tune the hyperparameters of optimization algorithms and understand the effect of its hyperparameters with contour plots and ablation analysis

Skills and Interests

Programming	Python, Java, R, Tableau, Matlab
Further skills	Cloud (AWS), MLOps, SQL, Deep Learning, PyTorch, Linux, NAS, AutoML, CI/CD, DevOps
Languages	German (native), English (fluent) , Portuguese (fluent), French (intermediate)
Interests	Machine Learning, Chess, Surfing, Skiing