Curriculum Vitae

Personal details

Name	Amadeu Manfred Scheppach
Address	Schleifweg 10A, 86405 Meitingen
Contact	scheppachamadeu@yahoo.com
Mobile	+49176 57733819

Education

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

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

Work Experience

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

- Here I have worked in two different teams, namely data science and software development.

Data Science

- Working on an NLP project where we are developing an MLOps pipeline for ticket classification (using BERT)
- 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

- Full-Stack developer for the BMW eSIM backend system
- Learned skills: Java, Kubernetes, Docker, Cloud (AWS), CI/CD, DevOps, Git Workflows

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

- Based on popular NAS methods for NLP, I implemented new algorithms in the field of bioinformatics to find the optimal Deep Learning architecture in an automated way (using Python and PyTorch)
- As a first author this work will be published at the IEEE CIBCB 2023 this year

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

Since 04/2023 **HR-AI application**

Information Extraction:

- Extract skill entities (using Named Entity Recognition) from resumes and Jira stories using spaCy and nltk library

Information Retrieval:

- Use document embeddings to calculate similarity scores between resumes and job descriptions in order to rank applicants

Topic Modeling:

- Apply Topic Modeling to resumes and jira stories in order to create skill clusters and profiles (using LDA, nltk and spaCy)

Since 05/2023	**Custom Chatbot** - Implemented a custom chatbot in order to chat with current scientific papers (using langchain, huggingface and nltk)
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)
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, Shell scripting
NLP skills	LLMs, GPT, Information Extraction (Named Entity Recognition), Information Retrieval, Topic Modeling, Text Classification and Regression, Fine-Tuning
NLP libraries	Langchain, OpenAI, spaCy, gensim, HuggingFace, nltk
Further skills	Cloud (AWS), MLOps, Kubernetes, Docker, Deep Learning, Linux, CI/CD, DevOps
Languages	German (native), English (fluent) , Portuguese (fluent), French (intermediate)
Interests	NLP, Chess, Surfing, Skiing