



# WASSIM BOUBAKER

## TECH LEAD & ML(OPS) ENGINEER

+49 162 2129004  
Boubaker.wa@hotmail.de

Technical Lead combining mathematical expertise and engineering skills to deliver enterprise ML solutions using Public Cloud infrastructure and DevOps practices.

### EDUCATION

- Jun '19 - Nov '21  
**Technical University of Berlin**  
M. Sc. **Mathematics**
- Oct '14 - Jun '18  
**Technical University of Munich**  
B. Sc. **Mathematics** with minor in **Computer Science**

### UNI PROJECTS

- TensorFlow Developer**  
Developed music genre classification system using GAN-based spectrogram embeddings and TensorFlow data pipelines
- Team Lead & AI Developer**  
Led 4-person Agile team at Capgemini & TUM DI Lab developing ensemble of CNNs for document classification on LRZ supercomputing infrastructure

### SKILLS

- Machine Learning & AI:**
  - Deep Learning, Transfer Learning, Natural Language Processing, Computer Vision, Recommendation Systems
  - Neural Networks (CNN, LSTM, Transformers), Ensemble Methods, Multi-Armed Bandits
  - Classification, Clustering, Regression, Active Learning, Regularization Techniques
- Cloud & MLOps:**
  - AWS (EKS, Lambda, SageMaker, Glue, SNS/SQS)
  - Docker, Kubernetes, KubeFlow
  - CI/CD Pipelines, ETL Processing, Event-Driven Architecture
- Software Development:**
  - Python, MATLAB, Java
  - TensorFlow, PyTorch
- Leadership & Methods:**
  - Technical Team Leadership
  - Agile/Scrum
  - Solution Architecture
  - Requirements Analysis

### LANGUAGES

- German - C2 / near-native
- English - C2 / near-native
- French - C2 / native
- Arabic - C2 / native (Fluent)

### WORK EXPERIENCE

#### NTT DATA SE (04.2019 - Present)

Munich, Germany

##### **Lead Technical Consultant: ML Engineer & Solution Architect** 04.2023 - Present

- Led near-shore development team through partner in Tunisia, including team staffing and technical mentoring, delivering enterprise-scale in-car recommender system (1M+ users) with 30% project margin
- Architected scalable Machine Learning solution on AWS (EKS, Lambda, SNS/SQS), following DevOps Best-Practices (e.g. CI/CD) implementing advanced algorithms including tensor factorization and multi-armed bandits.
- Designed data pipeline solution handling millions of daily interactions using AWS Glue ETL and serverless event-driven processing.
- Coordinated the product design and the technical integration across 4 teams, translating business requirements into scalable solutions.
- Implemented comprehensive MLOps practices with KubeFlow pipelines while mentoring team in cloud-native development.
- Key contributor in €10M+ bid team, designing technical solutions for enterprise ML and Data Engineering initiatives.

##### **Senior Technical Consultant: Deputy Asset Owner**

11.2021 - 04.2023

- Led ML development for ticket automation system, implementing clustering models and Open-Source LLM-based RAG to support Operations teams.
- Orchestrated cross-account AWS infrastructure (EKS/ECS) with GitLab CI/CD & CloudFormation for automated deployments.
- Created PowerBI analytics dashboards for automation opportunity identification.
- Led DevOps capability community, organizing knowledge exchanges to standardize practices across our Service Line in NTT DATA.
- Led the DevOps Capability community for sustainable knowledge sharing.
- Supervised 7 final-year Telecommunication & IT-Engineering Machine Learning projects.

##### **Junior Part-Time Machine Learning Engineer**

04.2019 - 11.2021

- Built a prototype ML pipeline on AWS SageMaker for ticket classification and clustering, reducing analysis costs by ~75%.
- Developed transformer-based (BERT) natural language question-answering model fine-tuning pipeline with Bregman Proximal Point optimization, implementing regularized adversarial training for robust transfer learning.
- Built computer vision system for car-part damage assessment using MS CustomVision.ai.
- Created interactive PowerBI dashboards for aftersales analytics and reporting.

#### OSRAM (03.2018 - 04.2019)

Munich, Germany

##### **Junior Part-Time Business Development & Strategy Analyst**

- Prepared and presented 4 business pitch-decks.
- Designed and created an indoor-localization simulation and a UI using MATLAB.

#### Horváth&Partners (04.2017 - 01.2018)

Munich, Germany

##### **Junior Part-Time Research Associate**

- Developed IoT prototypes integrating speech recognition (Google Speech-To-Text) and computer vision (YOLO) on Raspberry Pi for smart device control and object tracking.
- Implemented text classification system combining SVM with Active Learning techniques for document processing.