

Summary

I am a consultant and data scientist, currently specializing on GenAI topics in insurance. I develop GenAI solutions of various scenarios in and around the insurance services landscape. Prior to that I was a researcher, gaining over 10 years of combined experience in industry R&D and academic research environments. With a computer science and computer engineering background, I have a comprehensive understanding and knowledge of the machine learning applications development life cycle, from data acquisition, storage, reproducible deployment and evaluation, as well as a publication track record in these topics. I have developed methodologies for objective time series evaluation as well as subsequent time series synthesis using Generative Adversarial Networks. My core strengths lie in methodological problem assessment and solution and a goal-oriented approach. I am seeking Data Scientist and Machine Learning Engineer opportunities where I apply my know-how and deliver high quality data analysis insights and results.

Experience

Allianz Services Munich-Unterföhring, Germany

SENIOR CONSULTANT EMERGING TECHNOLOGIES

Oct. 2024 - present

- Productivity Solutions and Innovation Emerging Technologies:
 - Development of tailored GenAl solutions for insurance related topics

Ulm University Ulm, Germany

RESEARCH ASSOCIATE, LECTURER

Jan. 2018 - Dec. 2023

- STEALTH Project (2020-2022):
 - STEALTH: Anonymisation through Privacy-preserving Data Generation
 - Senior researcher, synthetic time series generation.
- Al Investments Project (2019-2021):
 - All: An advanced investment tool based on machine learning and big data.
 - Data scientist & scientific consultant for time series analysis and generation.
- RECAP Project (2018-2019)
 - RECAP: Reliable Capacity Provisioning and Enhanced Remediation for Distributed Cloud Applications
 - Data science tasks & research on time series generation for cloud and telecommunication data (Partnership with Britsh Telecom).
 - Assistance in project and deliverables coordination.

Daimler AG, Mercedes Benz Research and Development (MBRD)

Ulm, Sindelfingen, Germany

WORKING STUDENT, INTERN, BACHELOR- & MASTERTHESIS

Juli. 2011 - Apr. 2017

Mai. 2010 - Mai. 2011

- · Research- and series development of several camera monitor prototype vehicles (replacement of the side-mirror with a camera and display)
- Research on surround vision systems (360 degree cameras)
- Night vision near infrared image colorization using synthetic images research

S.A.D. GmbH Ulm, Germany

STUDENT SOFTWARE DEVELOPER

• Development of dashboards for tracking and predicting downloads of S.A.D. software

- Development of dusing on relations in Ulyminian market
- Development of business relations in Ukrainian market

Education

Ulm UniversityUlm, Germany

PH.D. COMPUTER SCIENCE Jan. 2020 - Dec. 2023

• Planned defense: June 2025

M.Sc. Computer Science

• Ph.D. thesis topic: Synthetic Time Series Workload Generation

 Ulm University
 Ulm, Germany

• GPA 1.3 (very good), Majors: Computer Vision, Distributed Systems

• Master thesis topic: Luminance Estimation of Colorized Near-Infrared Images (research performed at MBRD Ulm) Grade: 1.0

Ulm University of Applied Sciences

Ulm, Germany

Mar. 2010 - Feb. 2014

Mar. 2014 - Aug. 2017

B.Sc. Computer Engineering

• GPA 1.4 (very good)

· Bachelor thesis topic: Low-light Image Quality Optimization of HDR Cameras (research performed at MBRD Sindelfingen) Grade: 1.3

Skills

Data-Driven GenAl, Machine Learning, Deep Learning, Analysis, Visualization, Computer Vision, Reproducible Research

Cloud CI/CD, OpenStack, Rancher, Terraform, Kubernetes, Grafana, SQL & NoSQL Databases

Programming Python, MATLAB, SQL, JAVA, C/C++, C#

Code Stacks LangChain, Scikit, Pandas, Keras, JupyterLab, FastAPI, Flask

Languages German (fluent), English (fluent), Russian (fluent)

Other

FUNDINGUlm University

VECTOR STIFTUNG STEM RESEARCH GRANT (€120.000)

Jan. 2020 - Oct. 2022

• Project STEALTH:

• Anonymisation through Privacy-preserving Data Generation

TEACHING ACTIVITIES Ulm University

LECTURER, SUPERVISOR

Jan. 2018 - Dec. 2023

• Supervision of 3 M.Sc. Thesis & 4 B.Sc. Thesis

- · Lecture Exercise Introduction to Deep Learning
- Seminar in Selected Topics in Machine Learning (over 15 student works supervised)

Selected Publications

Optimization of demanding scenarios in CMS and image quality criteria

LEZNIK & TERZIS, HANDBOOK OF CAMERA MONITOR SYSTEMS:

2016

THE AUTOMOTIVE MIRROR-REPLACEMENT TECHNOLOGY BASED ON ISO 16505

Multivariate time series synthesis using generative adversarial networks

LEZNIK ET AL., INTERNATIONAL CONFERENCE ON PERFORMANCE ENGINEERING ICPE 2021, ACM/SPEC

2021

The Great GAN Bake Off, An Extensive Systematic Evaluation of Generative Adversarial Network Architectures for Time Series Synthesis

LEZNIK ET AL., JSYS, JOURNAL OF SYSTEMS RESEARCH

2022

Academic Service & Committees

Organization Committee, The Second International Workshop on Performance - Data Analytics and Data-Management

Coimbra, Portugal

Organization Committee, The First International Workshop on Performance - Data Analytics and
Data-Management

Beijing, China

2022 Vice-Chair, SPEC Research Group, RG Predictive Data Analytics Working Group

Gainesville, USA