

# AYDIN JAVADOV

## PhD Candidate at ETH Zurich

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 ajavadov.github.io/

## EXPERIENCE

### PhD Candidate in Machine Learning & ETH AI Center Associated Researcher ETH Zurich

-  Nov 2024 – Present       Zurich, Switzerland
- Supervised by:  
Prof. Dr. Florian von Wangenheim  
(Mobilier Lab for Analytics @ ETH Zurich)  
Prof. Dr. Bjoern Schuller  
(GLAM @ Imperial College London & CHI @ TUM)  
Focusing on: Human-AI Alignment, Explainable AI, Multi-modality, Large Language Models

### Machine Learning Research Student

#### BMW Group

-  Apr 2023 – May 2024       Munich, Germany
- Have leaded the project on Explainable AI integration to the graph learning for engine-related problem - pushed to the production pipeline.  
Focusing on: Large Language Models, Time Series Analysis, Graph Representation Learning, Explainable AI

### Master Thesis:

#### Explainable AI for Graph Representation Learning and Clustering Algorithms

#### BMW Group

-  Oct 2022 – Apr 2023       Munich, Germany
- Technologies: Python, Pytorch, AWS, Git  
Graded: 1.0 (German System)

### Guided Research:

#### Explainable AI and Computer Vision for Clinical Decision Support in Dermatology

#### Technical University of Munich, Chair of Computational Imaging and Inverse Problems

-  Apr 2022 – Nov 2022       Munich, Germany

The subject was understanding and implementation of several interpretability techniques for deep learning models for skin lesion classification. The work was on the theme of human-centered explainable AI and involved close collaboration with Munich University Clinic physicians.

### Data Science Working Student

#### novuter GmbH

-  September 2021 – May 2022  Munich, Germany

Extracted raw data and transformed the data stories on different domains (e.g. finance) to optimize the decision making.

Technologies: PostgreSQL, JavaScript, Python, R

### Artificial Intelligence Intern

#### ATL Tech - AI Lab

-  Oct 2019 – Feb 2020       Baku, Azerbaijan

- Took part in the Advanced research of Speech recognition in Dialog Systems for Azerbaijani Language

Technologies: Python, pandas, numpy

## EDUCATION

### PhD Candidate in Machine Learning

#### ETH Zurich

-  November 2024 - Present

### M.Sc in Data Engineering & Analytics

*Distinction (Top 10%)*

#### Technical University of Munich

-  April 2021 – July 2024

German Grade: 1.5

### B.Sc (Exchange Student) in Computer Science

#### Korean Advanced Institute of Science and Technology

-  Feb 2018 – June 2018

### B.Sc in Computer Engineering

*Distinction (Top 1%)*

#### ADA University

-  Sept 2016 – June 2020

German Grade: 1.1

## AWARDS & PARTICIPATIONS

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- 🥈 84th out of 78545 Students (top 0.001%)

National University Entrance Exam of Azerbaijan

📅 July 2016

- 🏆 (winner) Hackaton HackaTUM:

Technical University of Munich & Carl Zeiss AG (ZEISS)

📅 Nov 2021

- 🥈 228th out of 40875 Students (top 0.005%)

Primary School Republic Examination of Turkiye

📅 Nov 2010

- 🥈 Global Korea Scholarship

Ministry of Education of Korea Republic

📅 February - June 2018

- 2x Rector's List of Honour & 3x Dean's List of Honour and Merit-Based Scholarship

ADA University

📅 2017-2020

- Organizer of 'Purple Comet' International Math Olympiad

ADA University

📅 April 2019

## REFEREES

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### Academic

- Prof. Dr. Bjoern Schuller  
Imperial College London & TUM
- Prof. Dr. Viktor Leis  
TUM
- Prof. Dr. Felix Dietrich  
TUM
- Prof. Dr. Florian von Wangenheim  
ETH Zurich

### Industry

- Prof. Dr. Tobias Lasser  
NVIDIA
- Dr. Raphael Weingartner  
BMW
- Dr. Iryna Bastian  
BMW

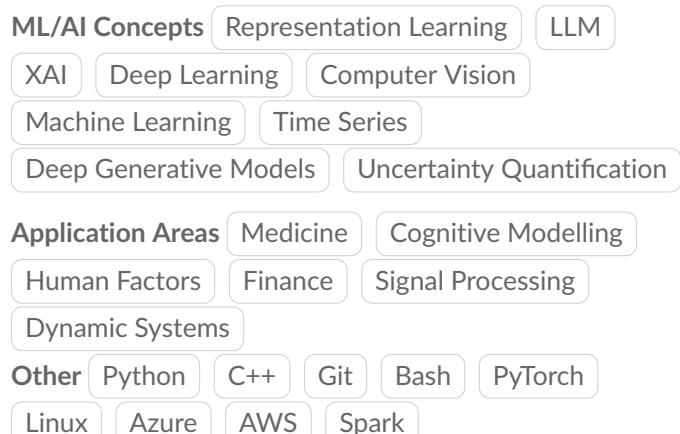
## PUBLICATIONS

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- RAxSS: Retrieval-Augmented Sparse Sampling for Explainable Variable-Length Medical Time Series Classification @ *Learning from Time Series for Health NeurIPS 2025*
- Compose and Fuse: Revisiting the Foundational Bottlenecks in Multimodal Reasoning - *preprint available - under review for ICLR 2026*
- "Adaptive Confidence-Weighted LLM Infusion for Financial Reinforcement Learning". *The 11th IEEE International Conference on Intelligent Data and Security (IEEE IDS'25)*. Special Track: Financial Reinforcement Learning and Foundation Models (FinRLFM). New York, USA, 2025.
- "BioSyncHRI: Synchronizing Human Robot Interaction via Real-Time Biosignal Adaptation", Workshop in Envisioning the Future of Interactive Health, *CHI 2025*, Yokohama, Japan, 2025.
- "Generative AI for Wellness Applications via User-Generated Immersive Virtual Environments", Generative AI and HCI Workshop, *CHI 2025*, in Yokohama, Japan, 2025.
- "Approximation of CIEDE2000 color closeness function using Neuro-Fuzzy networks", *Applied Intelligence*, Volume 51 <https://link.springer.com/article/10.1007/s10489-021-02326-1>, 2021
- The Playground, *Math Horizons*, 27:1, 30-33, DOI:10.1080/10724117.2019.1629214, 2019.

## TECHNICAL SKILLS

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## LANGUAGES

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Turkish (native), Russian (native) Azerbaijani (native), English (fluent), German (elementary), Korean (beginner)