AYDIN JAVADOV

PhD Candidate at ETH Zurich

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EXPERIENCE

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

Mov 2024 - Present

♀ Zurich. Switzerland

Supervised by:

Prof. Dr. Bjoern Schuller

(GLAM @ Imperial College London & CHI @ TUM)

Prof. Dr. Florian von Wangenheim

(Mobiliar Lab for Analytics @ ETH Zurich)

Focusing on: Machine Learning, Large Language Models, Multimodalilty, Human-Al Alignment, Reinforcement Learning, Explainable Al

Machine Learning Research Student **BMW Group**

Apr 2023 - May 2024

Munich, Germany

Focusing on: Large Language Models, Time Series Analysis, Graph Representation Learning, Explainable Al

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

m Apr 2022 - Nov 2022

The subject of this project is the understanding and implementation of several interpretability techniques for deep learning models for skin lesion classification, in computer vision context. 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

- Extracted raw data and transformed the data stories on different domains (e.g. finance) to optimize the decision making.
- Created business related data stories for Digital Assistant in www.novuter.com with SQL

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

Mars Academy- Engineering, Robotics and Programming instructor

Mars Academy

August 2018 - August 2019

- Taught Python to primary and high school students.
- Taught basic Engineering techniques concerning Arduino UNO.

Technologies: Python, Arduino UNO, Lego Mindstorms EV3

EDUCATION

PhD Candidate in Machine Learning ETH Zurich

Movember 2024 - Present

M.Sc in Data Engineering & Analytics (Distinction)

Technical University of Munich

m April 2021 - July 2024

German Grade: 1.5 (Top 15%)

B.Sc (Exchange Student) in Computer Science

Korean Advanced Institute of Science and Technology

Feb 2018 - June 2018

B.Sc in Computer Engineering (Distinction) ADA University

🛗 Sept 2016 - June 2020

German Grade: 1.1 (Top 1%)

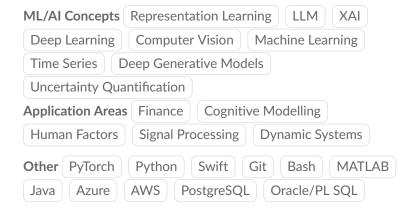
PUBLICATIONS

- "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'25, Yokohama, Japan.
- "Generative AI for Wellness Applications via User-Generated Immersive Virtual Environments", Generative AI and HCI Workshop, CHI'25, in Yokohama, Japan.
- "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

• The Playground, Math Horizons, 27:1, 30-33, DOI:10.1080/10724117.2019.1629214

TECHNICAL SKILLS



LANGUAGES

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

AWARDS & PARTICIPATIONS

 1st Place in HackaTUM Hackathon Technical University of Munich

Movember 2021

Magna Cum Laude Honor and Diploma of distinction for graduation

ADA University

August 2020

Dean's List of Honour and Merit-Based Scholarship

ADA University

₩ January 2020

Rector's List of Honour and Merit-Based Scholarship named after Lotfi Zadeh

ADA University

Ctober 2019

 Head Jury Certification at First Lego League (FLL) Competition

Ministry of Education of Azerbaijan Republic

April 2019

 Organizer of 'Purple Comet' International Math Olympiad

ADA University

Dean's List of Honour and Merit-Based Scholarship

ADA University

• Lego Official Trainee

Lego Education

February 2019

Global Korea Scholarship
 Ministry of Education of Korea Republic

February - June 2018

Rector's List of Honour and Merit-Based Scholarship

ADA University

Dean's List of Honour and Merit-Based Scholarship

ADA University