




AMIR REZA MOHAMMADI









Contact Information

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


Research Interests

Topics: Machine Learning, Recommender Systems, Graph Neural Networks, Explainable AI





Education

- 2022 - Pres. **PhD Cand. in Computer Science**, *Universität Innsbruck*, Innsbruck, Austria
Thesis Explainable Graph Neural Network Recommenders (, , Supervisor: Dr. Eva Zangerle 
- 2019 - 2021 **M.Sc. in Computer Science**, *Institute for Advanced Studies in Basic Sciences*, Zanjan, Iran
Thesis Web User Intention Forecasting Using AutoML (, , Supervisor: Dr. Mahdi Bohlouli 
GPA 19.64/20.0 | Ranked 1st
- 2018 **Visiting Researcher**, *Studied as an EU funded Erasmus+ project called GraDA in partnership with Vienna University of Technology (TUWIE), University of Bonn (UoB) and 9 other partners and universities.*, Bonn, Germany 
- 2014 - 2018 **B.Sc. in Information Technology**, *Institute for Advanced Studies in Basic Sciences (IASBS)*
Thesis Twitter Sentiment Analysis Using Apache Spark MLlib. Supervisor: Dr. Zahra Narimani 
GPA 18.14/20.0 | Ranked 4/48

Publications

- ⇒ **A.R. Mohammadi**, E. Zangerle: "Explainable Graph Neural Network Recommenders; Challenges and Opportunities" (Accepted at RecSys23) ()
- ⇒ A. Peintner, **A.R. Mohammadi**, E. Zangerle: "SPARE: Shortest Path Global Item Relations for Efficient Session-based Recommendation" (Accepted at RecSys23) (, )
- ⇒ **A.R. Mohammadi**, A. Peintner, E. Zangerle: "Reproducibility and Comparative Analysis of GNN Counterfactual Explanations with Adversarial Examples" (Submitted to SIGIR24) (, )
- ⇒ **A.R. Mohammadi**, A.H. Karimi, M. Bohlouli, E. Zangerle, G. Specht: "HPT4Rec: AutoML-based Hyperparameter Self-Tuning framework for session-based Recommender Systems" (Accepted at GvDB2022) (, )
- ⇒ M.H. Nazeri, M. Bohlouli, **A.R. Mohammadi**, M. Bohlouli: "GMM-TF: Adaptive Generative Multi-Modal Framework for Trajectory Forecasting in Autonomous Vehicles" (not peer-reviewed) (, )

Academic Experience


- | | |
|--|---|
| TA Big Data Analytics - course page  | TA Software Engineering - course page  |
| ↔ Teacher: Dr. Mahdi Bohlouli | ↔ Teacher: Dr. Mohsen Afsharchi |
| ↔ Year: 2020 | ↔ Year: 2017 |
| TA Data Engineering - course page  | TA Algorithm Design and Data Structure  |
| ↔ Teacher: Dr. Eva Zangerle | ↔ Teacher: Dr. Mansoor Davoodi Monfared |
| ↔ Year: 2023 | ↔ Year: 2016 |

2019 - 2021 **Research assistant** at Intelligent Systems Group (ISG), IASBS

Work Experience

- Summer 2021 **ML Consultant**, focused on data preparation using Python. MelkRadar Co. Tehran, Iran
Fall 2020 **Language Contributor** at WordUp, Geeks Ltd, London, UK (Remote)
2019 - 2020 Funded Startup **Co-Founder** (Kaseb), Arvancloud Company, Tehran, Iran
2017 - 2018 SarvTech company research **internship**, Supervisor: Dr. Peyman Pahlevani



Skills

- Languages Persian (Native), English (IELTS: **Band 7**), Azeri (Fluent), Arabic (Basic), German (A2)
Programming Python (comfortable with , 5+ years), C++ (2 years), Erlang (1 year)
Tools, Tech. Linux (7+ years), Git (7+ years), L^AT_EX (6+ years), Microsoft NNI (2+ year)
Libraries Python Scientific Stack (5+ years), PyTorch (4+ years), Apache Spark (2+ years)

Accomplishments

- Sep. 2021 Participated in 1st AutoML Fall school conducted by LMU Munich, Uni Friburg and LUH. 
Mar., 5-6 State of Accomplishment in Deep Learning tutorial at International Conference on Contemporary
2019 Issues in Data Science (CiDaS) ()
Aug. 2018 Selected as the Exceptionally Talented Student in the undergraduate program, IASBS.
Nov. 2016 Participated in 3rd Junior World Entrepreneurship Forum (JWEF), Zanjan, Iran 
Feb 2016 2nd place in FinTech Competition, Science and Technology Park, Zanjan, Iran 
Jul. 2015 Member of IASBS IoT team, achieving top teams title in "IoT Cup", Iran University of Science
and Technology, Tehran, Iran
2015 Received Government scholarship during bachelor's studies in Information Technology.
Apr. 2010 Participated in RoboCup IranOpen competition and symposium, Junior Demo, Tehran, Iran 

Volunteer Works

- Nov. 2017 University representer at 5th exhibition of ELECOMP fair, Zanjan, Iran
Mar. 2019 Staff member of the International Conference (CiDaS), held at IASBS, Zanjan, Iran 
May 2020 Held Pilates (type of mind-body exercise) sessions for CS students, IASBS
2019 - 2021 Weekly paper presentation, ISG group, IASBS
Jul. 2018 Member of executive committee in 5th Hepatitis Awareness Campaign in Iran. 
2019-2020 Member of the executive team in Mehraneh charity's events (Cancer patients)
2019-2021 Coding session and Github page organizer in ISG, IASBS

Hobbies

⇒ Hiking Camping Board games Playing Golf Reading on Blinkist