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 GraDAna in partnership with Vienna University of Technology (TUVIE), 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**, A.H. Karimi, M. Bohlouli, E. Zangerle, G. Specht:"HPT4Rec: AutoML-based Hyperparameter Self-Tuning framework for session-based Recommender Systems"(Accepted at GvDB)(📄,🐙)

⇒ A. Peintner, **A.R. Mohammadi**, E. Zangerle:"SPARE: Shortest Path Global Item Relations for Efficient Session-based Recommendation"(Submitted to RecSys23)

⇒ 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M. Bohlouli: "GMM-TF: Adaptive Generative Multi-Modal Framework for Trajectory Forecasting in Autonomous Vehicles" (not peer-reviewed)(📄, 🐙)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	**Information Technology Engineering**	TA	**Algorithm Design and Data Structure** 🔗
↪	Teacher: Dr. Mahdi Bohlouli	↪	Teacher: Dr. Mansoor Davoodi Monfared
↪	Year: 2019	↪	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 (Basic)
Programming	Python (comfortable with 🐍, 5+ years), C++ (2 years), Erlang (1 year)
Tools, Tech.	Linux (7+ years), Git (5+ years), LaTeX (5+ years), Microsoft NNI (2+ year)
Libraries	Python Scientific Stack (5+ years), PyTorch (3+ 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 2019	State of Accomplishment in Deep Learning tutorial at International Conference on Contemporary 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 represener 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