Alireza Salemi

Manning College of Information and Computer Sciences, University of Massachusetts, Amherst, MA, USA

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Education

University of Massachusetts Amherst

Massachusetts, USA

MSc/PhD in Computer Science

September 2022 - Current

- Courses: Information Retrieval (4/4), Computer Vision (4/4)
- GPA: 4.0/4.0

University of Tehran Tehran, Iran

BSc in Computer Engineering

September 2017 - February 2022

- Ranked $\mathbf{1}^{st}$ among 103 Computer Engineering students
- GPA: 19.60/20 (4/4)

Imam Khomeini High School

Booshehr, Iran

Diploma in Mathematics and Physics Discipline

September 2013 - June 2017

- Ranked $\mathbf{1}^{st}$ among 63 Mathematics and Physics Discipline students
- GPA: 19.83/20

Interests_

Natural Language Processing Summarization, Translation, Text Generation, Hate Speech Detection.

Neural Information Retrieval Multi-modal Information Retrieval, Retrieval Enhanced Machine Learning, Dense Passage Retrieval.

Publications

PEACH: Pre-Training Sequence-to-Sequence Multilingual Models for Translation with **Semi-Supervised Pseudo-Parallel Document Generation**

Under Review @ EACL 2023

Alireza Salemi, Amirhossein Abaskohi, Sara Tavakoli, Yadollah Yaghoobzadeh and Azadeh Shakery

ARMAN: Pre-training with Semantically Selecting and Reordering of Sentences for **Persian Abstractive Summarization**

EMNLP 2021

Alireza Salemi, Emad Kebriaei, Ghazal Neisi Minaei and Azadeh Shakery

UTNLP at SemEval-2021 Task 5: A Comparative Analysis of Toxic Span Detection using Attention-based, Named Entity Recognition, and Ensemble Models

SemEval @ ACL-IJCNLP 2021

Alireza Salemi, Nazanin Sabri, Emad Kebriaei, Behnam Bahrak and Azadeh Shakery

Research Experience _____

Research Assistant at Center for Intelligent Information Retrieval

University of Massachusetts Amherst

Under supervision of Hamed Zamani

September 2022 - Current

- Worked on Retrieval Enhanced Machine Learning.
- Worked on Multi-modal Information Retrieval for Outside-knowledge Visual Question Answering Passage Retrieval.

Research Assistant at Information Retrieval Labratory

University of Tehran

Under supervision of Azadeh Shakery and Yadollah Yaghoobzadeh

January 2021 - September 2022

- Worked on designing a pre-training objective for multi-lingual language models.
- · Worked on designing a pre-training objective for a summarization language model. The paper about this work was accepted to EMNLP 2021.

Research Assistant at Data Analysis Laboratory

University of Tehran

Under supervision of Azadeh Shakery and Behnam Bahrak

August 2020 - February 2021

· Worked on designing a system for annotating toxic (hate speech) spans of a piece of text. The paper about this work was accepted to SemEval @ ACL-IJCNLP 2021.

Research Assistant at Tehran Institute for Advanced Studies (TeIAS)

Tehran, Iran

Under supervision of Mohammad Mousavi and Hossein Hojjat

July 2020 - December 2020

· Worked on model learning for software product lines.

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Under supervision of Fatemeh Ghassemi Esfahani

June 2020 - October 2020

· Worked on runtime enforcement decentralized algorithm that, given an automata-based specification of unwanted message sequences, prevents specific unwanted sequences from being sent.

Work Experience

Sotoon Tehran, Iran

Natural Language Processing Data Scientist

November 2021 - August 2022

- worked on a new AutoML service for text classification on a large scale. • worked on sentiment analysis of customer's reviews.
- worked on automatically accept/rejection of customers comments.

Teaching Experience _____

2020-202	1 Artificial Intelligence , Head TA, Under supervision of Yadollah Yaghoobzadeh and Hakimeh Fadaei	University of Tehran
2020-202	1 Programming Languages and Compiler Design , Head TA, Under supervision of Fatemeh Ghassemi	University of Tehran
2020-2021 The Theory of Formal Languages and Automata, TA, Under supervision of Hossein Hojjat.		University of Tehran
2020	Database Design, TA, Under supervision of Azadeh Shakery.	University of Tehran
2020	Design and Analysis of Algorithms, TA, Under supervision of Hamid Mahini.	University of Tehran
2019	Engineering Mathematics, TA, Under supervision of Mahdi Tale Masouleh.	University of Tehran

Achievements

2022	UMass Amherst CICS Scholarship , 4k\$ scholarship given to selected entering graduate students.	UMass Amherst
2021	Best Thesis Award in Computer Engineering, BSc thesis was selected as the best thesis in the computer engineering department	University of Tehran
2020	UT Sponsors Foundation Top Student , Selected as the top student at the computer engineering department.	University of Tehran
2020	University of Tehran Scholarship, Received scholarship from the UT Sponsors Foundation as an exceptional talent.	University of Tehran
2019	F.O.E (Faculty of Engineering) Award, Ranked 1^{st} among all of 103 Computer Engineering students.	University of Tehran
2019	UT Sponsors Foundation Top Student , Selected as the top student at the computer engineering department.	University of Tehran
2019	University of Tehran Scholarship , Received scholarship from the UT Sponsors Foundation as an exceptional talent.	University of Tehran
2018	UT Sponsors Foundation Top Student , Selected as the top student at the computer engineering department.	University of Tehran
2018	F.O.E (Faculty of Engineering) Award, Ranked 1^{st} among all of 103 Computer Engineering students.	University of Tehran
2018	University of Tehran Scholarship, Received scholarship from the UT Sponsors Foundation as an exceptional talent.	University of Tehran
2017	University of Tehran Scholarship , Received scholarship from the UT Sponsors Foundation as an exceptional talent.	University of Tehran
2017	University Entrance Examination , Ranked 217^{th} (national) and 59^{th} (regional) among 148k candidates.	Iran

Skills____

Programming Python (Pandas, PyTorch, NumPy, Scikit-learn, Tensorflow, Keras, Transformers. etc.), R, C/C++, Java.

Databases MySQL, PostgreSQL, Neo4j, Redis, Elastic Search.

Soft Skills Time Management, Teamwork, Problem-solving, Fast-Learning.

Languages

English Fluent (TOEFL score: 113/120, Reading: 30, Listening: 28, Speaking: 26, Writing: 29)

Native proficiency Persian

Arabic Familiar

DECEMBER 29, 2022