Saeed Najafi

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CONTACT

Department of Computing Science, University of Alberta, 8900 114 St NW, Edmonton Address: snajafi@ualberta.ca GitHub ID: SaeedNajafi Google Scholar: papers Mail:

RECENT INTERESTS

Natural Language Processing:

Question Generation, Relation Extraction, Reading Comprehension, Semantic Parsing, Sequence Labeling, Structured Prediction

Machine Learning:

Time Series, State-Space Models, Approximate Inference

WORK EXPERIENCE

Software Engineering Intern (Summer 2022)

Google, Mountain View, United States.

• Developing NLP models for business messaging.

Machine Learning Engineer

BenchSci, Toronto, Canada

2018-2020

- Developing NLP models for entity and relation extraction within bio-medial papers in order to gather use cases of protein reagents.
- Developing big data pipelines applying ML models in a distributed environment. Tech Stack: PySpark, Airflow, Ansible, BigQuery

Research Assistant (Summer 2018)

Diffbot, U of Alberta, Canada.

- Worked on fine-grained Named Entity recognition having thousand tags.
- Advisor: Denilson Barbosa

Python Developer (Summer 2015)

RCDAT, Tehran, Iran

• Developed web application to control TV gateway.

EDUCATION

Ph.D. in Computing Science

2020 -

University of Alberta, Edmonton, Canada

• Advisor: Alona Fyshe

• Current Project: "Weakly-Supervised Questions for Unseen Relations"

• Taken Courses:

Probabilistic Graphical Models (A), Combinatorial Optimization (A-), Reinforcement Learning I & II (A-)

M.Sc. in Computing Science

2016-2018

University of Alberta, Edmonton, Canada

- Advisors: Greg Kondrak & Colin Cherry
- Thesis: "Sequence Labeling and Transduction with Output-Adjusted Actor-Critic Training of RNNs"
- Taken Courses:

Natural Language Processing (A), Data Mining in Rich Data (A) Software Product Lines (A), Managing Big Text Data (A-), Teaching & Research Methods

Bachelor of Science in Software Engineering

2012-2016

Amirkabir University of Technology, Tehran, Iran

- **GPA**: 17.69/20
- Advisor: Reza Safabakhsh
- Thesis: "Predicating ATM Machines Faults"
- Notable Course Grades:

B.Sc. Project 20 - Data Structures and Algorithms 20 - Math. (II) 19.75
Operating Systems Design 19.75 - Electric Circuits (I) 19.7 - General Physics (I) 19.5
Principles of Database Design 19.4 - Design of Programming Languages 19.0 - Logic Circuits 19
Electronic Circuits 19 - General Physics (II) 18.85 - Machine Language Programming 18.74
Foundations of Data Mining 18.6 - Software Engineering 18.5 - Information Security 18.5
Internet Engineering 18.25 - Artificial Intelligence 18.0 - B.Sc. Internship 18
Engineering Statistics 17.8 - Computer Architecture 17.8 - Advanced Computer Programming 17.5
Theory of Machines and Languages 17.5 - Data Storage and Retrieval 17.0 - Discrete Structures 17.0

PUBLICATIONS

- "Efficient Sequence Labeling with Actor-Critic Training" (CAIAC 2019, paper)
- "String Transduction with Target Language Models and Insertion handling" (SIGMORPHON @ EMNLP 2018, paper)
- "Combining Neural and Non-Neural Methods for Low-Resource Morphological Reinflection" (CoNLL-SIGMORPHON @ EMNLP 2018, paper)
- "Comparison of Assorted Models for Transliteration" (NEWS @ ACL 2018, paper)
- "If you can't beat them, join them: the University of Alberta system description" (CoNLL-SIGMORPHON @ ACL 2017, paper)

TEACHING ASSISTANT

- Introduction to Database Systems U of Alberta (Falls 2016 & 2017 & 2020)
- Advanced Database Systems U of Alberta (Winters 2017 & 2018 & 2022)
- C Programming Language U of Alberta (Winter 2018)

- Web Development Amirkabir U of Technology (Fall 2015)
- Computer Architecture Amirkabir U of Technology (Spring 2015)

HONOURS & AWARDS

- The University of Alberta Doctoral Recruitment Award (\$5000 September 2020)
- Travel grant for CAIAC conference. (May 2019)
- Travel grant for ACL conference. (August 2017)
- Honorary direct admission to the graduate school of Amirkabir U of Technology having high undergraduate GPA (10/120). (June 2015)
- Ranked among the top 0.5% in the university entrance exam. (July 2012)
- Semi-finalist at Iranian National Mathematics Olympiad (2010 and 2011)

MISC.

- Talks:
 - Bag of Tasks in NLP (Summer School, U of Alberta, Summer 2018) Introduction to NER (CMPUT 650, U of Alberta, Fall 2018)
- Reviewer: ACL, NAACL-HLT, EMNLP, IJCNLP, EACL
- Current Dev Stack: Python, PyTorch, SQLite
- TOEFL: 106/120
- Languages: English, Persian, Azeri
- Sports: Soccer, Running, Cycling, Volleyball, Ski, Hiking
- Citizenship: Iranian (Citizen), Canadian (Permanent Resident)