

SEYEDSAJAD MIRZABABAEI

Iran, Sharif University of Technology

EDUCATION *Master of Science, Computer Science and Software Engineering* 2020 - Present
🏛️ Sharif University of Technology, Iran (**GPA : 19.57/20**)

Bachelor of Science, Computer Science and Software Engineering 2015 - 2019
🏛️ Isfahan University of Technology, Iran

RESEARCH INTEREST **Natural Language Processing**
Machine Learning
Data Mining

PUBLICATIONS **Annotate Less: document annotation mechanism under search API constraint** (M.Sc. Thesis)

In this study, we demonstrate a way to generate training data in the presence of a search interface and a limited annotation budget. The proposed algorithm suggests an effective set of queries about a topic of interest to submit to the search interface. The output data is labeled and used to train the document classification algorithm.

Parstdex : Extract Persian Time and Date Markers (In prepration for coling2022)

solution provides a two phase pipline to detect Time and Date entities:

- Noise-aware weakly supervised Training with weakly generated labeled data
- Fine-tuning with small strongly labeled data generated by an expert

PERSONAL INFORMATION ✉️ ss.mirzababaei@gmail.com

🐙 GitHub

🌐 LinkedIn

RELEVANT COURSEWORK **Graduate Courses**
Natural Language Processing (20/20)
Data Mining (20/20)
Algorithmic Game Theory (19.4/20)
Theory of Distributed Systems (20/20)
Software Architecture (19.3/20)
Performance Evaluation System (18/20)
Software Testing (20/20)

Coursera Courses

Introduction to Machine Learning by Duke University
Natural Language Processing Specialization by DeepLearning.AI
Fine Tune BERT for Text Classification with Tensorflow

TEACHING *Natural Language Processing* Spring 2022
Sharif University of Technology, Iran

Algorithmic Game Theory Spring 2022
Sharif University of Technology, Iran

Massive Data Mining Spring 2022
Sharif University of Technology, Iran

Automata and Computation Theory Fall 2021
Sharif University of Technology, Iran

Operating System Teacher Assistant(3 semesters) Fall 2017 – Fall 2018
Isfahan University of Technology, Iran

Advanced Programming Teacher Assistant Fall 2017
Isfahan University of Technology, Iran

EXPERIENCES *Software Engineer* Nov 2020 - Present
Iran, Tehran, Intelligent Information Solutions Laboratory
IIS Center is a knowledge-centric center at the Sharif University of Technology whose main aim is to improve the transmission of knowledge and expertise at the Sharif University of Technology to industries that rely on such knowledge.

Data Scientist and Backend Developer Sep 2019 – Oct 2020
Iran, Tehran, Paziresh24
Paziresh24 is a digital health marketplace that provides cloud-based solutions for appointment booking and online consulting for patients, medical clinics, hospitals, and physicians.

HONORS AND AWARDS Rank 16 among more than 10,000 participants in the national university entrance exam for an M.Sc. degree in Computer Science and Software Engineering

Rank in the top 0.5% among more than 180,000 participants in the Iranian national entrance exam

ACADEMIC PROJECTS *"ParsTimeNER : Date and Time named entity recognition with weak supervision approach"*, Natural Language Processing, Professor Ehsaneddin Asgari, SUT, Fall 2021

"Persian Semantic Search : ranking documents similarity using TFIDF, weighted TFIDF, and fine-tuned Bert model", Natural Language Processing, Professor Ehsaneddin Asgari, SUT, Fall 2021

"Persian Date and Time Markers Extractor", Natural Language Processing, Professor Ehsaneddin Asgari, SUT, Fall 2021

"Analysis of Digikala's marketplace platform Dataset comments", Data Mining Course, Professor Mohammad Amin Fazli, SUT, 2020-2021

"Emotion Analysis using Spark on MovieLens Dataset", Data Mining Course, Professor Mohammad Amin Fazli, SUT, 2020-2021

"A Comprehensive Survey On Software Architecture of Urban Transportation Industry", Software Architecture Course, Professor Jafar Habibi, SUT, 2020-2021

"Implementing Discriminatory/M-M-1-K Processor Sharing Queue Simulator", Computer Performance Evaluation, Professor Ali Movaghar, SUT, 2020

"Detecting Obfuscated JavaScripts Malwares using Machine Learning", Bachelor's Project, Professor Ali Fanian, IUT, 2018-2019

"A Comprehensive Survey On Malicious JavaScript Detection Using Machine Learning", Technical Writing and Presentation, Professor Majid Nabi, IUT, 2018-2019

"Hospital Management Platform using Django Framework", Software Engineering Lab 1 Course, Professor Elham Mahmoudzadeh, IUT, 2017-2018

"Social Network Application based on Cryptocurrency", E-Commerce Course, Professor Mohammad Samadani, IUT, 2017-2018

TECHNICAL SKILLS

Languages

I have more than five years of experience in industrial and scientific programming with programming languages such as Python(Django - Flask), C++, JavaScript and, PHP.

Libraries and Frameworks

Machine Learning : PyTorch, Pandas, Numpy, Sklearn, Matplotlib, PySpark, et cetera

Web Development : Flask, Django, Zend(PHP)

Others

- *Good experience in implementing ELK stack (ElasticSearch-Logstash-Kibana) at the production level*
- *Familiar with visualizing and analyzing business data with Microsoft Power BI tool.*
- *Good experience using different Linux distributions like Arch and Ubuntu.*

ENGLISH PROFICIENCY

TOEFL Overall Score: 99

Reading 30

Listening 28

Speaking 22

Writing 19