

# Fatemeh Rahimi

ML/NLP Researcher



## CAREER OBJECTIVE

I am a ML/NLP Researcher who is passionate about learning new concepts and skills. I am seeking a position to develop creative solutions for real world problems using traditional and cutting-edge ML solutions. I have experience in NLP, Deep learning, and Transfer Learning, while looking forward to learning more from the experts in the field.



## Selected Projects

### Using Multi-task Learning to improve Multi-label classifications task

*Dalhousie University, Halifax, Canada/ March 2020 - now*

- Master's Thesis
- Developing a CLI tool for multi-tasking and multi-head architectures using Python, PyTorch, huggingface libraries, and MLflow
- Using language pre-trained models such as BERT, BioBERT, and RoBERTa

### Learn Faster and Forget Slower via FAST and Stable Task Adaptation for pre-trained language models

*Dalhousie University, Halifax, Canada/ May 2020 - now*

- Improving the fine-tuning algorithm of pre-trained language model
- Developing with Python, PyTorch, huggingface libraries, and MLflow
- Team project

### Information Retrieval of covid-19 academic papers using language models

*Dalhousie University, Halifax, Canada/ April 2020 - now*

- Using unsupervised fine-tuning and Siamese network to train the T5 model for finding related documents to a query
- Dataset is from the [TREC-COVID](#) competition
- Team project

More projects are listed in my [personal website](#).



## EXPERIENCE

### Research Assistant (Deep Learning, NLP)

*Dalhousie University, Halifax, Canada/ March 2019 - now*

- Working with SOTA Deep Language models research (Transfer learning in NLP)
- Working under the supervision of Dr. Milios and Dr. Matwin
- Worked on both individual and team projects
- Leveraged my knowledge of Python to develop a CLI tool for multi-task learning

### Data Analyst

*Ayten Company, Shiraz, Iran/ Aug 2018 - Feb 2019*

- Learned more about Scrum (Software Development framework) in action
- Part of social network analysis team, worked with python, neo4j, and MongoDB

### Linux Instructor

*Joyandegane Parto Nor Sadegh, Shiraz, Iran/ Jun 2015 - Aug 2016*

- Promoted as an intern to the company's instructor
- Focused on topics Linux development such as Kernel description, Shell scripting, version control



## CONTACT

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### GitHub:

<https://github.com/fatemerhmi>

### Personal Website:

<https://fatemerhmi.github.io/>



## EDUCATION

### M.S. / Computer Science

Dalhousie University, Halifax, Canada

May 2019 - Dec 2020

GPA: 4.07 (Out of 4.3), via 12 credit

### B.S. / Software Engineering

Shiraz University, Shiraz, Iran

Sep 2013 - Dec 2017

GPA: 16.11(out of 20), via 141 credit



## HARD SKILLS

Python, Java, C

Numpy, scikit-learn, pandas,  
Matplotlib

PyTorch, Tensorflow, Keras,  
Hugging Face Transformers,  
MLflow

MySQL, Neo4j, MongoDB

Git, Window, Linux



## SOFT SKILLS

Self-motivated

Hard working

Team Player

Problem-Solving

Public Speaking

Research oriented

Communication