



TECHNICAL SKILLS

- Programming
- A.I.
- Data Science
- Mathematics
- Statistics
- Research

PROGRAMMING LANGUAGES:

- Python
- R
- C++

FRAME WORKS:

- Pytorch
- TensorFlow
- Numpy
- Pandas

REFERENCES:

Dr. Bardia Panahbehagh (Assistant Professor, Faculty of Mathematics and Computer Science - Kharazmi university): panahbehagh@khu.ac.ir

Dr. Mir Mohsen Pedram (Associate Professor, Faculty of Engineering - Kharazmi university): pedram@khu.ac.ir

Dr. Naierreh Elyasi (Assistant Professor, Faculty of Mathematics and Computer Science - Kharazmi university): elyasi82@khu.ac.ir

ABOUT ME

Data Science Master Student – One Who Loves Research in A.I, Data Science, and Mathematics

EDUCATION

Kharazmi University

2014–2018 | Bachelor of Applied Mathematics

Kharazmi University

2019–2021 | Master of Data Science

ACTIVITIES & AWARDS

- 2016** • Member of student mathematical society
- 2017** • Bronze medal in 41st Iranian Mathematical Society (IMS) competition
- 2017** • Joining to the Elite foundation of Kharazmi university

WORKSHOPS

- 2016** • Data Mining With R
- 2017** • Deep Learning With TensorFlow
- 2018** • Topological Data Analysis (TDA) with Python

PAPERS

- 2018** • Creating a New Persian Poet Based on Machine Learning arxiv.org/abs/1810.06898
- 2019** • An Introduction to a New Text Classification and Visualization for Natural Language Processing Using Topological Data Analysis arxiv.org/abs/1906.01726
- 2020** • Topological Data Analysis for Classification of DeepSat-4 Dataset – 10th International Symposium on Telecommunications (IST)
- 2020** • H-index of 2

RESEARCH PROJECTS & INTERESTS

- Natural Language Processing

- Few shot learning with multilingual base BERT
- Data augmentation with bert
- Persian text generator with GPT-2
- Text classification for intent suggestion in chatbots
- Trained a general domain language model
- Text summarization with BERT and page rank algorithms
- Developed Word2Vec, Glove, and Fasttext word embedding

- Text To Speech

- Deploying Tacotron(1-2), TransformerTTS, FastSpeech for Persian language
- Experience with Vocoderes like Melgan, HiFiGan, ...
- Creating a TTS dataset for Persian language

- Speech To Text

- Working and training Wav2vec2 for Persian
- Working and fine-tuning XLSR wav2vec2 for Persian and English
- Working and training DeepSpeech2 for Persian
- Gathering a dataset of 2k hours for Persian ASR
- Following achievements in Wav2Vec2 ASR fine-tuning sprint:
 - 1st place in French
 - 5th place in Swedish
 - 4th place in Dutch
 - 4th place in Georgian
 - 3rd place in German
 - 2nd in place in Czech
 - Available at:
 - <https://paperswithcode.com/dataset/common-voice>
 - <https://huggingface.co/MehdiHosseiniMoghadam>

WORKING EXPERIENCE

- 2019 • AI and Data Science partnership in FAO (Spatial Data Analysis)
- 2019 • AI partnership in DigikalaNext
- 2019-2021 • Co-Founder of Kouventa AI (AI powered chatbot)
- 2018 • Remote Sensing Intern at FAO (Crop estimation project)

LANGUAGES

- Persian : Native
- Turkish : Native
- English : IELTS band score 6.5



- <https://www.linkedin.com/in/mehdi-hosseini-moghadam-384912198/>



- m.h.moghadam1996@gmail.com



- +98 9304914806



- <https://scholar.google.com/citations?user=TKWbohsAAAAJ&hl=en>



- <https://mehdihosseinimoghadam.github.io/>