



Mehdi Hosseini Moghadam

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UK - Oxford

AI Specialist & Data Scientist

About Me

I am an AI Specialist & Data Scientist
Formally Co-Founder of Kouventa
With Over 7 Years of Academic
Experience and Over 6 Years of
Industrial Experience in AI and Data
Science.

Skills

- Project Management
- Problem Solving
- Creativity
- R&D
- Communication Skills

Expertise

- Artificial Intelligence
- Data Mining
- Computer Vision
- Natural Language Processing
- Speech Technology

PROGRAMMING LANGUAGES:

- Python
- R
- C++

Work Experience

- 2022-2025

1 year

ML Engineer | Agilysis LTD
I am Responsible for Research and Development of Machine Learning and Deep Learning Modules for Air Quality, Road Safety, Data Gathering, and Data Transformation.
- 2019 -2021

3 years

Co-Founder | Kouventa AI
I was Responsible for Research and Development of Machine Learning and Deep Learning Modules for Chatbots (NLP, NLG, NLU), Data Gathering, and Data Transformation.
- 2018

1 year

Data Science intern (Spatial Data Analysis) | FAO
I collaborated on a project called Crop Estimation with Satellite Images, which is a sub field of remote sensing and spatial data analysis, and in the project I helped to use sentinel-2 satellite images and analyse them with different filters and predictive models like convolutional neural networks and random forests in order to estimate and forecast the amount of crop that will be produced in the next few months.

Education

- 2014-2018

5 years

Master of Data Mining | Kharazmi University
Graduated with 1st. Class
- 2019-2021

2 years

Bachelor of Applied Mathematics | Kharazmi University
Graduated with 1st. Class

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

TALKS & WORKSHOPS

- December 15, 2020

Topological Data Analysis for Classification of DeepSat-4 Dataset
Conference Talk, 2020 10th International Symposium on Telecommunications (IST) , Tehran, Iran

FRAME WORKS:

Pytorch	Django
TensorFlow	Fastapi
Numpy	Java Script
Pandas	Node Js
scikit-learn	HTML
Matplotlib	CSS
NLTK	
Spacy	
Spark NLP	
Docker	

REFERENCES:

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

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

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

LANGUAGES

Persian : Native

Turkish : Native

English : IELTS band score 7

English : IELTS Life Skills B1



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



• m.h.moghadami996@gmail.com



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



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

September 18, 2018

Topological Data Analysis

Tutorial, Kharazmi University, Department of Engineering , Tehran, Iran
A Talk Around Theory, Concepts, and Tools in the Field of Topological Data Analysis

July 11, 2018

Topological Data Analysis with Python

Talk, Kharazmi University, Department of Computer Science & Mathematics, Karaj, Iran
A Talk Around Theory, Concepts, and Tools in the Field of Topological Data Analysis

May 12, 2017

Deep Learning With TensorFlow

Tutorial, Kharazmi University, Department of Computer Science & Mathematics , Karaj, Iran
An 8 Week Tutorial on Deep Learning with TF (CNN, RNN, GAN, RL)

February 01, 2016

Data Mining With R

Work Shop, Kharazmi University, Department of Computer Science & Mathematics, Karaj, Iran
Work Shop Covered Begginer to Advanced Topics in R (From Fundamentals to Machine Learning)

PAPERS

- Elyasi, N. and Moghadam, M.H., 2019. An introduction to a new text classification and visualization for natural language processing using topological data analysis. arXiv preprint arXiv:1906.01726. [Paper Link](#)
- Moghadam, Mehdi Hosseini, and Mir Mohsen Pedram, "Topological Data Analysis for Classification of DeepSat-4 Dataset" 2020 10th International Symposium on Telecommunications (IST). IEEE [Paper Link](#)
- Moghadam, M.H. and Panahbehagh, B., 2018. Creating a New Persian Poet Based on Machine Learning. arXiv preprint arXiv:1810.06898. [Paper Link](#)
- Elyasi, N. and Moghadam, M.H., Classification Of Skin Lesions By Topological Data Analysis Alongside With Neural Network. [Paper Link](#)

OPEN SOURCED SOFTWARES

- Punctuation and Capitalization
This Repo Contains Implementation and explanation of Punctuation and Capitalization System for ASR models [Link](#)
- Catalan Text To Speech [Link](#)
This Repo Contains Implementation of Catalan Text To Speech With Some Samples [Link](#)
- Vq-VAE Methods for Sound Reconstruction
This Repo Contains Implementation of Vq-VAE methods for sound reconstruction in Pytorch
- Complex Neural Networks
This Repo Contains Implementation of Complex Valued Neural Networks in Pytorch
- shapedetector [Link](#)
This Package contains YOLOv5 model which has been trained over dataset of shapes (containing two classes of polygons and ellipse), model is capable of detecting two classes and counting the number of each class in a given image
- ChexpertClassifier [Link](#)
This Package contains EfficientNet B3 model which has been trained over CheXpert Small version for 30 epochs and can be used to classify chest X-ray images for 14 classes
- CatalanTTSo [Link](#)
This Repo Contains Implementation of Catalan Text To Speech With Some Samples
- HuggingFace ASR Repo [Link](#)
Automatic Speech Recognition in 8 Different Languages