

Mehdi Hosseini Moghadam

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Iran - Tehran 💽

Al Specialist & Data Scientist

About Me

I am an Al Specialist & Data Scientist Formally Co-Founder of Kouventa With Over 7 Years of Academic Experience and Over 3 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
- C++

Work Experience

2019 -2021 Co-Founder | Kouventa Al

I was Responsible for Research and Development of Machine Learning 3 years

and Deep Learning Modules for Chatbots (NLP, NLG, NLU), Data Gathering,

and Data Transformation.

Data Science intern (Spatial Data Analysis) | FAO 2018

2 Months 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 Master of Data Mining | Kharazmi University

Graduated with 1St. Class 5 years

2019-2021 Bachelor of Applied Mathematics | Kharazmi University

Graduated with 1St. Class 2 years

ACTIVITIES & AWARDS

2016 Member of student mathematical society

Bronze medal in 41st Iranian Mathematical 2017

Society(IMS) competition

2017 Joining to the Elite foundation of Kharazmi university

TALKS & WORKSHOPS

Topological Data Analysis for Classification of DeepSat-4 Dataset December 15, 2020

Conference Talk, 2020 10th International Symposium on Telecommunications (IST), Tehran, Iran

Topological Data Analysis September 18, 2018

Tutorial, Kharazmi University, Department of Engineering , Tehran, Iran

A Talk Around Theory, Concepts, and Tools in the Field of Topological Data Analysis

FRAME WORKS:

Pytorch TensorFlow Numpy Pandas Django Fastapi

Pandas scikit-learn Matplotlib 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



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



https://mehdihosseinimoghadam.github.io/

Topological Data Analysis with Python July 11, 2018 Talk, Kharazmi University, Department of Computer S

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

Deep Learning With TensorFlow
May 12, 2017
Tutorial, Kharazmi University, Department of 9

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

Data Mining With R

February 01, 2016

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. <u>Paper Link</u>
- Elyasi, N. and Moghadamb, M.H., Classification Of Skin Lesions By Topological Data Analysis Alongside With Neural Network. <u>Paper Link</u>

OPEN SOURCED SOFTWARES

Punctuation and Capitalization

This Repo Contains Implementation and explanation of Punctuation and Capitalization System for ASR models

Catalan Text To Speech

This Repo Contains Implementation of Catalan Text To Speech With Some Samples

<u>Vq-VAE Methods for Sound Reconstruction</u>

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

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

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

This Repo Contains Implementation of Catalan Text To Speech With Some Samples

HuggingFace ASR Repo

Automatic Speech Recognition in 8 Different Languages