Fahim Jafari

Natural Language Proccessing Researcher
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EDUCATION :

2016 — 2021: Ferdowsi University Of Mashhad
Engineering Faculty
Bachelor Of Computer Engineering
GPA (cumulative): 17.77 out of 20
GPA (specialized lesssons): 18.56 out of 20

RESEARCH INTERESTS :

Natural language processing
Deep Learning
Machine Learning
Image processing

SKILLS :

Python
PHP
Java
Git
Matlab
Docker
C++

TEACHING EXPERIENCE :

2020-2021(two semesters): **Applied Linear Algebra**
Teaching Assistant by porf Modjtaba Rouhani(homepage)
Email : rouhani@um.ac.ir

2019 — one semester: **Computer Architecture**
Teaching Assistant by porf Hamid Noori
Email : hnoori@um.ac.ir

WORK EXPERIENCE :

2021/7/24 — 2021/9/22: **Natural Language Proccessing(Internship)**
AHD Company
Responsibility : Semantic Search

Language :

Persian(Native)

English(IELTS score) : (will be taken on Novenber 2021)

PROJECTS :

Search Engine

- I used the fastText model for training on the contents of Persian news and text representations to map them to meaningful vectors.
- I applied Elastic Search for indexing the documents and their vector representations in order to retrieve them briskly.
- I also applied the Hazm library as a preprocessor(normalizing sentences and words and removing the stop words).
- I ingested and transformed the data from a big file(14 Gigabytes) in JSON format to Elastic Search database via Logstash, a pipeline preprocessor for inserting big data.

Text Classifier(Transfer learning)

- I used the data augmentation method, such as using synonyms and removing random words to avoid overfitting the training model.
- I applied a BERT model for training on my data.
- I transferred the outputs of the last layer of the BERT model for the next classifier network.
- The result was leaded to %78 accuracy on validation data.

Movie Recommender

- I firstly used collaborative filtering for the recommendation.
- I applied Knn for clustering users.
- I then combined a content-based model with collaborative filtering for recommendation(based on similarity of books titles with TF-IDF).