Mehrdad **Sheikhjaberi**

COMPUTER ENGINEER · DATA SCIENTIST

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Education

AMIRKABIR UNIVERSITY OF TECHNOLOGY (Tehran polytechnic) *Tehran, Iran*

BSc.Computer Engineering- IT *Sep. 2015 - now*

- Cumulative GPA (via 136 passed units): (3.57 / 4)
- GPA(last 4 semester): 3.54 / 4.00

Work Experience

PUBLICATION ANALYSIS *Jan 2020 - now*

NLP lab at Amirkabir university

In this project, I started to implement my knowledge that I learned about data mining and natural language processing in an applicable project as a member of the NLP lab at Amirkabir university that belongs to an institute of ministry of science, named publication analysis. First, I changed the text to vector in some different ways (LDA,word2vec with three different lengths of vector, word2vec weighted TF-IDF, TF-IDF,doc2vec). Then, I trained six classification models for each vector. After that, I chose the best model by accuracy and used that model for labelling the unlabeled publications. Subsequently, I built an interface (front with react.js and backend with express.js) to use this project. I ran LDA with all publications and labelled each topic with the help of human resources. As a result, on the main page, people can choose category and year and the number of topics and main words and see the results that reached from averaging between selected topic's vectors of publications and its labelled topic. This project was presented for the first time in Persian publications and it is very helpful for analyzing the evolution of articles. All this processing was under the supervision of my professor DR. Momtazi (head of the NPL lap at Amirkabir University).

WEB AND MOBILE DEVELOPER INTERN *Sep 2019 - Dec 2019*

AMID RAYANEH SHARIF (ARSH) COMPANY

in this internship, I worked for EPFL university's mobile startup that was about children with disabilities. i started to learn about advance react native for mobile and some instructions about web programming and its principles and how applications(web based and mobile) develop from begining. this internship improved my attitude about correct application developing.

FINAL PROJECT *Aug 2020 - now*

BACHELOR'S PROJECT

This project Is about Implementation of mobile Interface for a machine learning algorithm for dictation(Persian language) named deep mind. Selected framework for front developing Is react-native because It can give both of the android and IOS outputs.

Selected Academic Projects

DATA MINING *Jan 2020 - Jun 2020*

IMPLEMENTATION OF CLASSIFICATION AND CLUSTRING ALOGORIHTMS

- Implementation of K-means clustering algorithm by python
- Implementation of Naïve Bayes Text Classification by python
- Implementation of image compression with kmeans clustring by python)
- predicting the chance of cancellation hotel's booking by python

INTERNET ENGINEERING *Sep 2019 - Jan 2020*

DEVELOPING AN ONLINE HOUSE RENT WEBSITE

Website is developed with react for front-end and express.js for back-end and mongoDB for database

SIGNALS AND SYSTEMS *Sep 2019 - Jan 2020*

Matlab Project

recognizing men and women's voice and removing noise from voice with Fourier series.

PRINCIPLES OF DATABASE DESIGN *Sep 2017 - Jan 2018*

ERD, MYSQL, Queries

Designing online shopping ERD and SQL database, Working with MYSQL and pertinent queries

Technical Skills

Programming Languages: Python, Java, C/C++, SQL ,React-native, VHDL (Hardware Description Language)
Web Technologies: HTML5, CSS3, XML, React.js, JSON, Ajax, Express.js, Node.js
Databases: SQL, MySQL, PostgresSQL, MongoDB
Miscellaneous: Linux, Android Studio, ModelSim, Vivado Design Suite (Xilinx), NetSim, Orcad, Git, Wireshark, ssh, AdobeXD,

Research Interests

- Natural Language Processing(NLP)

- Data Science

- Deep Learning & Neural Network

- Machine Learning and AI