Curriculum Vitae

Personal Information

Name	**Mohammad Aeini**
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Github	github.com/mdaeini

Academic Background

Sep. 2014 to Aug. 2020 — **BSc in Software Engineering**, *University of Kurdistan, Sanandaj, Iran*

- Overall GPA: 3.0/4
- Specialized GPA: 3.5/4
- Ranked Top 20% Students of the Department of IT and Computer Engineering
- Ranked 1 st in University of Kurdistan ACM Contest, 2016
- Selected Courses: Artificial Intelligence, Data Science with Python, Data Mining, Internet of Things, Implementation of Database Systems

Teaching Assistant

2018-2019	**Database Design Principles**, *University of Kurdistan*
2018-2019	**Operating Systems**, *University of Kurdistan*
2018-2019	**Software Engineering**, *University of Kurdistan*
2018-2019	**Methods, Research and Presentation**, *University of Kurdistan*
2018	**Implementation of Database Systems**, *University of Kurdistan*
2017-2018	**Data Structures**, *University of Kurdistan*

Projects

Oct. 2020 — **Scraping COVID-19 Data from Reddit**

Implement a web scraper using Python Reddit API Wrapper (PRAW) to extract textual data from the COVID-19 subreddit. Afterward, the data will clean and organize to use for building ML models.

Sep. 2020 — **Sentiment Analysis of Twitter Data**

Analyze the tweets of an individual Twitter account in terms of subjectivity and polarity. Besides, the WordCloud library is used to draw a word cloud of the tweet's most positive words.

Aug. 2020 — **Approximating Distinct Elements of Data Streams**

Implement the Flajolet-Martin algorithm in python to get an estimation of distinct elements in a stream. The NASA Access Log Dataset 1995 is used as a data stream in this project.

Aug. 2020 — **Scraping Local Stock Market Data**

Implement a web scraper in python to collect all data about the shares, using Selenium, Beautiful Soup, Pandas, and NumPy libraries. Afterward, the data will clean and organize to use for building ML prediction models.

Jun. 2020 — **Data Classification on UCI Car Evaluation Dataset**

Implement a python program to download the UCI Car Evaluation Dataset, then train Neural Network, Decision Tree, and Naïve Bayes models for the classification task. Next, Precision, Recall, AUC, Accuracy, and F1 Measure evaluates the final models.

May. 2020 — **Data Clustering on UCI Iris Dataset**

Implement a python program to download the UCI Iris Dataset, then identify clusters using k-means and fuzzy-c-means approaches. Then NMI, RI, and ARI measures are used for evaluation.

Apr. 2020 — **Polygraph to check VSR Schedules in DBMS**

A python application checks if a schedule is View Serializable or not, then generating the corresponding polygraph. The NetworkX and Matplotlib python

libraries are used to draw the polygraph on the screen.

Dec. 2019 **CNN for Autonomous Steering Control**

Develop a CNN model to control the steering wheel of a vehicle. According to the direction of the route, this model will estimate the angle of the steering wheel. Pillow library in python is used to generate random images of any possible road.

SKILLS

Programming Language	**Python** , **Java**, **C/C++**, **R**, **Go, Scala**
Database	**SQL** (MySQL), **NoSQL** (MongoDB, GraphQL, JSON)
Big Data and ML	**Hadoop**, **Spark MLlib**, **Python Libraries** (TensorFlow, Keras, NLTK, scikit-learn, OpenCV, NumPy, Pandas, Selenium, Beautiful Soup)
Simulators	**iFogSim**, **Cisco Packet Tracer**
Other	**Git**, **Linux**, **LaTeX**, **LibreOffice**

LANGUAGE

Mother Tongue	**Kurdish**
Native	**Persian**
Other Languages	**English**