Mahdi Kafi

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# Education

**B.Sc.** *of Computer Engineering (Software),* K.N. Toosi University of Technology, Tehran, Iran          2014-2019
**GPA,** 16.23/20
**Last Two-Year GPA,** 18.10/20

# Selected Courses

**Fundamentals of Computer Vision,** 17.7/20
**Fundamentals of Robotics,** 17.5/20
**Artificial Intelligence & Expert Systems,** 19/20
**Software Engineering,** 19.5/20
**System Analysis & Design,** 18.5/20
**Advanced Programming,** 16/20
**Engineering Probability,** 19/20
**Signals & Systems,** 17.5/20
**Operating Systems,** 19.3/20
**Design of Programming Languages,** 19.3/20
**Eng Mathematics,** 20/20
**Electrical Circuits,** 20/20
**Computer Networks,** 18/20
**Micro Processors & Assembly Language,** 20/20
**Computer Structure & Language,** 20/20
**Research & Technial Presentation,** 17.2/20

# Research Interests

**Computer Vision**
**Deep Learning**
**Artificial Neural Networks**
**Machine Learning**
**Image Processing**

# Selected Projects

**Facial Expression Recognition,** Trained a Cascade Detector to detect faces from the video frame and a Convolutional Neural Network to classify the faces in 5 classes based on expression.
**Page Rank,** Implemented a Python script to spider a website and rank its pages then visualize the results of page ranking.
**Email Data Analysis,** Implemented a Python script to catch over 1 gigabyte email data, clean and model them in database and find top 10 organizations which sent most emails.
**Vehicle Routing,** Implemented client-side of a website which is used to choose some destinations and get the most efficient route between them.
**Heart Disease Detection,** Developed a Rule-Based Expert System to detect heart disease based on patient's symptoms.
**Library Management System,** Developed a graphical library management system using Java, Javafx, Oracle 12c database, and Hibernate.

# Honors and Awards

Dean's List of Computer Engineering Department, K.N. Toosi University of Technology, Tehran, Iran 2018

Ranked Top 0.5 % among approximately 200,000 participants in the National Entrance Examination form Iranian Universities, Iran 2014

# Accomplished Courses

**Convolutional Neural Networks,** deeplearning.ai, Coursera, *certificate* Summer 2019

**Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning,** deeplearning.ai, Coursera, *certificate* Summer 2019

**Structuring Machine Learning Projects,** deeplearning.ai, Coursera, *certificate* Summer 2019

**Hyperparameter tuning, Regularization and Optimization,** deeplearning.ai, Coursera, *certificate* Spring 2019

**Neural Networks and Deep Learning,** deeplearning.ai, Coursera, *certificate* Spring 2019

**Python for Everybody,** 5-course specialization, University of Michigan, Coursera, *certificate* Spring 2019

**Data Mining with Python,** KNTU ACM Student Chapter, Tehran, Iran, *certificate* Winter 2018

# Work Experiences

**Rahbin Sanat Nasir,** *Intern,* Implemented a Lane Departure Warning (LDW) system. Summer 2018

# Teaching Experiences

**Hatef High school,** *Teacher,* Python Programming 2019-Present

**K.N. Toosi University of Technology,** *Teaching Assistant,* Artificial Intelligence & Expert Systems Fall 2018

**K.N. Toosi University of Technology,** *Teaching Assistant,* Artificial Intelligence & Expert Systems Fall 2017

**K.N. Toosi University of Technology,** *Teaching Assistant,* Principles of Database Design Spring 2017

**K.N. Toosi University of Technology,** *Teaching Assistant,* Theory of Formal Languages & Automata Spring 2016

# Extracurricular Activities

**ACM Student Member** 2018-Present

**KNTU ACM Student Chapter,** *Vice President* 2018-2019

**KNTU Computer Engineering Student Scientific Association** 2017-2019

# Computer Skills

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|---|---|
| **Languages** | Python, Java, SQL, C/C++ |
| **Tools/Framework** | Tensorflow, Keras, OpenCV, Flask, Kivy, Git, LaTeX, Adobe Illustrator, Adobe Photoshop, MS Office |
| **Databases** | PostgreSQL, Oracle12c, SQLite |

# Languages

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|---|---|
| **English** | IELTS 7 – Listening 7, Reading 7, Writing 6.5, Speaking 6.5 GRE – Quantitative Reasoning 162, Verbal Reasoning 140 |