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

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

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

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