KAMYAB AZIZI

CONTACT

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CURRICULUM VITAE

INTERESTS: EDUCATION:

Master study at Amirkabir University of Technology-Electrical and Electronic engineering Machine Learning (Tehran Polytechnic) Deep Learning Thesis Title: Transfer learning in pruned deep neural networks based on the lottery ticket hypothesis Signal Processing Supervisor: Dr. Hassan Taheri Embedded Systems 2020-2022 GPA 17.25/20 (3.77/4 GPA) Computer Vision BSc at Amirkabir University of Technology-Electrical and Electronic engineering (Tehran HW/SW co-design Polytechnic) Thesis Title: Image compression using hybrid methods based on digital image processing and linear algebra Supervisor: Dr. Hassan Taheri 2015 -2020 GPA 16.07/20 (3.2/4 GPA)

HOBBIES: EXPERIENCE:

Football
Movies

Research Assistant
Amirkabir University of Technology-Electrical and Electronic engineering (Tehran Polytechnic) –

Reading Books
Since Oct. 2020

Swimming Volunteer Student Committee at the 5th International Conference on Robotics and

Mechatronics (ICROM)

Robotic Society of Iran (RSI) - Oct 2017

Electronics Engineering – Internship

Working on Programming Logic Device (PLD) and Sensors in Trucks – Summer 2017

SKILLS:

Programming Skills:

- Python Programming Language
- MATLAB & SIMULINK
- VHDL Programming-FPGA
- C/C++

Knowledge and Theoretical Skills:

- AI-Machine Learning-Deep Learning
- Image-Signal-Speech processing
- Pattern Recognition-Computer Vision
- Logic Circuits and Computer Architecture

Tools and Technologies:

- AVR (Codevision) & ARM (Keil)
- Microprocessors and assembly language
- Linux
- LaTex

Frameworks:

- Tensorflow and Keras
- Pytorch
- Pyspark
- NumPy and Pandas

LANGUAGES:

» English Professional working proficiency

» German

Elementary proficiency

» Kurdish

» Persian

Native or bilingual proficiency

SELECTED PROJECTS:

Course Projects (EE Dept. of AUT):

2022	Deep Learning [Dr. Faez] Audio-based drone detection and identification using Deep Learning	Keras
2021	Computer Vision [Dr. Faez] Map to Aerial Image Translation	Pytorch
2021	Neural Networks [Dr. Faez] Music genres classification task with Convolutional Neural Networks	Keras
2021	Big Data Analytics [Dr. Sharifian] Malware classification in BIG 2015 dataset for Microsoft challenge with the decision tree and Random forest classifier	Pyspark
2021	Big Data Analytics [Dr. Sharifian] Fraud detection with graph analytics on healthcare provider fraud detection analysis dataset	Python
2020	Statistical Pattern Recognition [Dr. Faez] Singular value decomposition algorithm for octonion signal and image denoising	MATLAB
2020	Data Analytics [Dr. Sharifian] Data acquisition and processing environment for IoT applications with Apache Kafka and TensorFlow Serving	Virtual Machine, Linux, Docker
2019	Electronic (III) Lab. Project [Mr. Kashi] Simple MOSFET-based dc/ac inverter with Astable Multivibrator	Electronic Circuit, Proteus
2019	FPGA [Dr. Sharifian] Implementing pipe-lined CORDIC Block on FPGA	VHDL
2019	Microprocessor I Lab. [Dr. Sharifian] Triangle Wave Generation with ARM (Without using DAC block)	C/C++, Keil, STM32CubeMX
2018	Electronic Physics [Dr. JahanShahi] Silicon wafer temperature sensor MATLAB simulation and visualization with Arduino	MATLAB, C/C++, Arduino

CERTIFICATES:

2022	Convolutional Neural Networks DeepLearning.AI	https://www.coursera.org/account/accomplishments/verify/VKBSAVYUZSSS
2022	Apply Generative Adversarial Networks (GANs) DeepLearning.AI	https://www.coursera.org/account/accomplishments/verify/JKXF3JVCXYU2
2022	Generative Adversarial Networks (GANs) Specialization DeepLearning.AI	https://www.coursera.org/account/accomplishments/specialization/K68AT2RDD8XN
2022	Build Better Generative Adversarial Networks (GANs) DeepLearning.AI	https://www.coursera.org/account/accomplishments/verify/ZP75E7YQSL93
2022	Build Basic Generative Adversarial Networks (GANs) DeepLearning.AI	https://www.coursera.org/account/accomplishments/verify/8EN8RB3FNJSR
2022	Structuring Machine Learning Projects DeepLearning.AI	https://www.coursera.org/account/accomplishments/verify/ZUP5P4NBM3NX

2022	Machine Learning Stanford University	https://www.coursera.org/account/accomplishments/verify/NRHF4N5YMFH2
2022	$\label{lem:control_control_control} \begin{tabular}{ll} \textbf{Improving Deep Neural Networks: Hyperparameter Tuning, Regularization,} \\ \textbf{and Optimization} \\ \textit{Deep Learning.AI} \end{tabular}$	https://www.coursera.org/account/accomplishments/verify/ZVHDKSYV5FVZ
2022	Neural Networks and Deep Learning DeepLearning.AI	https://www.coursera.org/account/accomplishments/verify/UF77DE6SVWZD
2021	FIFTH IPM ADVANCED SCHOOL ON COMPUTING & ARTIFICIAL INTELLIGENCE IPM Advanced School on Computing: Artificial Intelligence	https://raw.githubusercontent.com/kamyabazizi/kamyabazizi.github.io/main/images/CER2.jpg
2017	Executive Member in the 5 th RSI International Conference on Robotics and Mechatronics <i>ICRoM</i>	https://raw.githubusercontent.com/kamyabazizi/kamyabazizi.github.io/main/images/CER1.jpg

HONORS:

• 15th rank in the Iranian National Scientific Olympiad for University Students in Electrical and Electronics Engineering

Issued by Sanjesh Organization – Dec 2020 (https://gto.aut.ac.ir/content/8449/)

• Ranked Within the Top 0.27% (30th) Amongst ~11,000 participants in the national M.Sc. Entrance Exam in Electrical Engineering – Sep 2020

• Ranked Within the Top 0.25% of students in the Iranian National University Entrance Exam (454th) Amongst ~181,000 participants in the national university entrance exam – Sep 2015

NAME AND EMAIL OF TWO REFERENCES:

HASSAN TAHERI. Associate Professor, Department of Electrical Engineering, Amirkabir University of Technology

Email: htaheri@aut.ac.ir

KARIM FAEZ. Professor, Department of Electrical Engineering, Amirkabir University of Technology

Email: kfaez@aut.ac.ir

KEY PUBLICATIONS

Using Structured Pruning to Find Winning Lottery Tickets – (accepted)

The result of my master's dissertation has been submitted to 28th International Computer Conference, the Computer Society of Iran (CSICC2023).

Fabrication of heartbeat signal acquisition device and monitoring of the signal on mobile screen

In progress