

KAMYAB AZIZI

CONTACT

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- ☐ HomePage: <https://kamyabazizi.github.io>
- ☐ GitHub: <https://github.com/kamyabazizi>
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CURRICULUM VITAE

INTERESTS:

Machine Learning
Deep Learning
Signal Processing
Embedded Systems
Computer Vision
HW/SW co-design

EDUCATION:

Master study at Amirkabir University of Technology-Electrical and Electronic engineering (Tehran Polytechnic)
Thesis Title: Transfer learning in pruned deep neural networks based on the lottery ticket hypothesis
Supervisor: Dr. Hassan Taheri
[2020-2022 GPA 17.25/20 \(3.77/4 GPA\)](#)

BSc at Amirkabir University of Technology-Electrical and Electronic engineering (Tehran 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:

Football
Movies
Reading Books
Swimming

EXPERIENCE:

Research Assistant
Amirkabir University of Technology-Electrical and Electronic engineering (Tehran Polytechnic) –
Since Oct. 2020

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 Limitted working proficiency	» German Elementary proficiency	» Kurdish Native or bilingual proficiency	» Persian Native or bilingual proficiency
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SELECTED PROJECTS:

Course Projects (EE Dept. of AUT):

2022	Deep Learning [Dr. Faez] <i>Audio-based drone detection and identification using Deep Learning</i>	Keras
2021	Computer Vision [Dr. Faez] <i>Map to Aerial Image Translation</i>	Pytorch
2021	Neural Networks [Dr. Faez] <i>Music genres classification task with Convolutional Neural Networks</i>	Keras
2021	Big Data Analytics [Dr. Sharifian] <i>Malware classification in BIG 2015 dataset for Microsoft challenge with the decision tree and Random forest classifier</i>	Pyspark
2020	Statistical Pattern Recognition [Dr. Faez] <i>Singular value decomposition algorithm for octonion signal and image denoising</i>	MATLAB

2020	Data Analytics [Dr. Sharifian] <i>Data acquisition and processing environment for IoT applications with Apache Kafka and TensorFlow Serving</i>	Virtual Machine, Linux, Docker
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CERTIFICATES:

2022	Convolutional Neural Networks <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/VKBSAVYUZSSS
2022	Apply Generative Adversarial Networks (GANs) <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/JKXF3JVCXYU2
2022	Generative Adversarial Networks (GANs) Specialization <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/specialization/K68AT2RDD8XN
2022	Build Better Generative Adversarial Networks (GANs) <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/ZP75E7YQSL93
2022	Build Basic Generative Adversarial Networks (GANs) <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/8EN8RB3FNJSR
2022	Structuring Machine Learning Projects <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/ZUP5P4NBM3NX
2022	Machine Learning <i>Stanford University</i>	https://www.coursera.org/account/accomplishments/verify/NRHF4N5YMFH2
2022	Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/ZVHDKSYV5FVZ
2022	Neural Networks and Deep Learning <i>DeepLearning.AI</i>	https://www.coursera.org/account/accomplishments/verify/UF77DE6SVWZD
2021	FIFTH IPM ADVANCED SCHOOL ON COMPUTING & ARTIFICIAL INTELLIGENCE <i>IPM Advanced School on Computing: Artificial Intelligence</i>	https://raw.githubusercontent.com/kamyabazizi/kamyabazizi.github.io/main/images/CER2.jpg
2017	Executive Member in the 5th 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) and will be published in IEEE soon.

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

<https://arxiv.org/abs/2302.06272>