ALI GHOLAMI

Software Engineer & Computer Vision Researcher

- github.com/aligholamee
 https://aligholamee.github.io
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- @ aligholamee@outlook.com



AUT

AUT

EDUCATION

B.Sc. in Computer Engineering Amirkabir University of Technology (AUT)

m Dec 2016 - Dec 2018

♀ Tehran, IR



Qualifications

- Cumulative GPA: 3.54 / 4
- Last 60 Units GPA: 3.68 / 4
- Fully admitted to Amirkabir University of Technology due to outstanding performance at Kharazmi University of Tehran.

Diploma in Mathematics

Kamal Highschool

m Oct 2012 - July 2014

• Cumulative GPA - 19 / 20

RESEARCH INTERESTS

- Visual Question Answering
- Image Segmentation
- Image Captioning
- Image Style Transfer
- Generative Models
- Zero-shot Learning

RESEARCH EXPERIENCE

Machine Learning Lab

Research Scientist

July 2018 - Ongoing

- ▼ Tehran, IR
- Analysis of formal representations of deep learning models in image style transfer.
- Exploration of *CNN* and *RNN* architectures in visual question answering and image captioning tasks.
- Design and implementation of generative models with Tensorflow.
- Inspection of statistical methods in face recognition.
- Acceleration of image processing algorithms with CUDA.

WORK EXPERIENCE

ArvanCloud

Web Developer

H Jun 2017 - Sep 2017

- **♀** Tehran, IR
- Design and implementation of an administrative panel using PHP and Laravel.
- Practicing the best coding styles in Javascript, especially Node.js and React.js.

Fandogh

Mobile Developer

- ▼ Tehran, IR
- Development of a poetry application with React Native.
- Design and implementation of a pure android weather forecast application.

SELECTED COURSES

Statistical Pattern Recognition

Machine Learning
 AUT

Foundations of Data Mining

• Computer Vision UDACITY

• Deep Learning UDACITY

Machine Learning
 Coursera

SELECTED HONORS

Ranked top 3

among most active GitHub developers in Iran.



Ranked top 0.6%

in the nationwide university entrance exam (approx. 250,000).



Elected as tidiest

student at the campus of international summer school, Institute Monte Rosa, Montreux, Switzerland.

PROGRAMMING SKILLS



LANGUAGES

Persian





• Registered to take the **TOEFL** on August 4.

TEACHING EXPERIENCE

Microprocessors and Assembly Language

Supervisor: Prof. Mohammad Mahdi Homayounpour

▼ Tehran, IR

Foundations of Programming

Supervisor: Prof. Azadeh Mansouri

▼ Tehran, IR

PUBLICATIONS

Technical Reports

- Gholami, Ali (2018b). Implementation and Optimization of Image Template Matching with CUDA. tech. rep. 1. Multi-core programming project report. Department of Computer Engineering and Information Technology: Amirkabir University of Technology.
- Gholami, Ali (2018d). Maximum Likelihood Approximate Nearest Neighbor Method in Real-time Image Recognition. Tech. rep. 2. Statistical pattern recognition project report. Department of Computer Engineering and Information Technology: Amirkabir University of Technology.

Coursework Reports

- Gholami, Ali (2018a). Dimensionality reduction strategies; Principal Component Analysis, Fisher Linear Discriminant and Feature Subset Selection. Available at: https://goo.gl/kkajZ1.
- Gholami, Ali (2018c). Linear Discriminant Functions, Support Vector Machine and Unsupervised Learning. Available at: https://goo.gl/w9tojs.
- Gholami, Ali (2018e). Non-parametric methods; Kernel Density Estimation. Available at: https://goo.gl/j4wcjg.
- Gholami, Ali (2018f). Visualization of classification models with RapidMiner. Available at: https://goo.gl/eSJLaE.
- Gholami, Ali (2017a). Analysis of Bayesian Decision Boundaries, Risk Minimization and Bayes Error Bounds. Available at: https://goo.gl/XKz7dh.
- Gholami, Ali (2017b). Association rule mining and feature engineering in unstructured datasets. Available at: https://goo.gl/G8fe6E.
- Gholami, Ali (2017c). *Implementation and evaluation of Decision Tree models on Annealing dataset*. Available at: https://goo.gl/JbBDPT.
- Gholami, Ali (2017d). *Implementation and evaluation of Decision Tree models on Annealing dataset*. Available at: https://goo.gl/JbBDPT.
- Gholami, Ali (2017e). *Induction, Denotational Semantics and Lambda Calculus*. Available at: https://goo.gl/d3Jh6r.
- Gholami, Ali (2017f). Introduction to Linear Algebra, Probability and Statistics. Available at: https://goo.gl/uCUWDX.
- Gholami, Ali (2017g). Lisp, Garbage Collection and Higher-order Functions. Available at: https://goo.gl/KUEVkR.
- Gholami, Ali (2017h). *Parametric methods*; *Maximum Likelihood and Bayesian Parameter Estimation*. Available at: https://goo.gl/Mc9wfm.
- Gholami, Ali (2017i). *Polymorphism*, *Type Safety and Type Inference*. Available at: https://goo.gl/uGH48R.
- Gholami, Ali (2017j). Types and Patterns in Algol and Meta Language. Available at: https://goo.gl/6X3Sgy.

REFEREES

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