ALI GHOLAMI

Software Engineer & Computer Vision Researcher

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? Tehran, IR

% aligholamee.github.io

@aligholamee



EDUCATION

B.Sc. in Computer Engineering Amirkabir University of Technology

M Oct 2014 - Dec 2018

▼ Tehran, IR

• Cumulative GPA - 17.54 / 20

Diploma in Mathematics

Kamal Highschool

m Oct 2012 - July 2014

• Cumulative GPA - 19 / 20

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

◊ 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.

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Mobile Developer

🛗 Jun 2017 - Sep 2017

♀ Tehran, IR

- Development of a poetry application with React Native.
- Coding of a pure android weather forecast application.

TEACHING EXPERIENCE

Microprocessors and Assembly Language Supervisor: Prof. Mohammad Mahdi Homayounpour

♀ Tehran, IR

Foundations of Programming

Supervisor: Prof. Azadeh Mansouri

▼ Tehran, IR

SELECTED HONORS

Ranked top 3

among most active GitHub developers in Iran.



Full admission

to Amirkabir University of Technology due to outstanding performance at Kharazmi University of Tehran.



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

English Spanish German



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). *Introduction to Linear Algebra, Probability and Statistics*. Available at: https://goo.gl/uCUWDX.
- Gholami, Ali (2017f). *Parametric methods*; *Maximum Likelihood and Bayesian Parameter Estimation*. Available at: https://goo.gl/Mc9wfm.

REFEREES

Prof. Mohammad Mahdi Homayounpour

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Prof. Mohammad Rahmati

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Prof. Ehsan Nazerfard

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