Mahdi Darvish

Tehran, Iran
✆ +98 (933) 272 6572
✉ MahdyDarvish@gmail.com
🖯 www.github.com/mahdi-darvish

Education

2018–2022 (Expected) **Bachelor of Science in Computer Engineering**,
University of Mohaghegh Ardabili, Ardebil, Iran.
- **Cumulative GPA : 3.77 / 4.00** *till now via 90 credit (50 left)*
- Ranked 1st cumulative GPA within the top 2% of graduating class

2013–2017 **High School Diploma in Mathematical physics**,
Allameh Helli High School,
National Organization for Development of Exceptional Talents,
Tehran, Iran.
- **Cumulative GPA : 3.94 / 4.00**
- **Graduated in Top 10% of Class**

Research Interests

- **Computer Vision**
Instance & Semantic Segmentation, Object Localization, Object Detection and Tracking, ConvNet Architecture, Scene Understanding and Generative Models

Honors & Awards

2018–current **Awarded distinguished student in the department of electrical and computer engineering**,
University of Mohaghegh Ardabili, Ardabil province, Iran.

Dec 2019 **Ranked 1st in the 2nd UMA Copa Code (UCC)**,
University of Mohaghegh Ardabili, Ardabil province, Iran.

May 2019 **Ranked 3rd in the 1st Code Cup of Mohaghegh (CCM)**,
University of Mohaghegh Ardabili, Ardabil province, Iran.

2015 & 2016 **Selected for 2nd stage of 27th and 28th International Olympiad in Informatics**.
Tehran province, Iran

Academic Projects

- **Instance Segmentation via Training Mask R-CNN** [GitHub]
  Combining Google Open Images with COCO-dataset weights and training a Mask R-CNN model to accurately create a instance mask for pumpkins.
- **Comparative Analysis of ConvNet Architecture on Bird Species Dataset** [GitHub]
  An implementation of famous convolutional neural networks on Bird species dataset using Python 3, Keras, and Tensorflow.
- **YOLOv3 from Scratch: Analaysis and Implementation** [GitHub]
  Implemented the YOLOv3 algorithm from scratch using PyTorch and explained the general architecture of algorithm.
- **COVID-19 Analysis and Visualization** [GitHub]
  Tracking and Visualizing the spread of COVID-19 worldwide with a special focus on Iran.

Teaching Assistant

Winter 2020 **Database Systems**, The department of computer engineering,
Instructor: Ahmad TaghiNezhad.

Winter 2020 **Discrete Mathematics**, The department of computer engineering,
Instructor: Masumeh Kheyri.

Skills

- **Programming Languages**
  Python (Upper-Intermediate), R (Intermediate) and Octave (Intermediate)
- **Frameworks and Packages**
  Tensorflow, Keras, PyTorch, Matplotlib, Seaborn, Pandas, Numpy, Jupyter-Notebook, OpenCV, Django, Pillow
- **Databases**
  PostgreSQL, MySQL and familiar with MongoDB

Coursework

2020–2021 **Deep Learning Specialization**,
(Expected) *authorized by DeepLearning.AI and offered through Coursera*,
Instructor: Andrew Ng, [Certificate].

  - Neural Networks and Deep Learning
  - Hyperparameter Tuning, Regularization and Optimization
  - Structuring Machine Learning Projects
  - Convolutional Neural Networks and Sequence Models

2020–2021 **Machine Learning**,
(Expected) *Offered by Stanford University through Coursera*,
Instructor: Andrew Ng, (5 Weeks left).

  - Skills Gained : Logistic Regression, Artificial Neural Networks, Machine Learning Algorithms, Machine Learning

Languages

- **Persian:** Native
- **English:** Fluent

References

- **Shahram Jamali**
  Professor - Faculty Member - The department of computer engineering - University of Mohaghegh Ardabili
  jamali@uma.ac.ir