

Parisa Hatami

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#### RESEARCH INTERESTS

- Artificial neural networks
- Machine learning
- Deep learning
- Image processing
- Detection and classification of different cancers

#### EDUCATION AND QUALIFICATION

- **M.S. in Biomedical Engineering, Biomedical Engineering Department, Amirkabir University of Technology (September 2017 – July 2020)**
  - **M.Sc. Thesis:** Detecting and classifying cancerous and non-cancerous masses in breast with deep learning  
**Supervisor:** Dr. S. Ali Seyyedsalehi ([ssalehi@aut.ac.ir](mailto:ssalehi@aut.ac.ir))
- **B.S. in Electronic, Department of Engineering, Adiban Institute of Higher Education (September 2011- September 2016)**
  - GPA= 16.05/20

#### EXPERIENCES

- Working with Convolutional Neural Networks, Capsule Neural Network, RCNN, Faster-RCNN and Mask RCNN both theoretically and practically
- Classification of breast tumors with pre-trained models like VGG16
- Implementation of Recurrent neural network like LSTM
- Training backpropagation models for recognizing Persian alphabets in voice without using specific libraries
- Working with DeepFake detection by CNNs and LSTM
- Removing logo by AI
- Enhancing resolution of image by AI
- Working with GANs for DeepFake

#### SKILLS

- Programming language
  - Python
- Framework
  - Tensorflow
  - Keras
  - Pytorch
- Software
  - MATLAB
  - Anaconda
  - Jupyter Notebooks

	<ul style="list-style-type: none"> <li>• Google Colaboratory</li> <li>• Platforms <ul style="list-style-type: none"> <li>• Windows</li> <li>• Linux</li> </ul> </li> </ul>
TEACHING ASSISTANT	<ul style="list-style-type: none"> <li>• <b>Artificial Neural Network</b> Instructor: Dr. S. Ali Seyyedsalehi Biomedical Engineering Department, Amirkabir University of Technology</li> <li>• <b>Computer Architecture</b> Instructor: Dr. Hossien P.Bashash Department of Engineering, Adiban Institute of Higher Education</li> </ul>
ARTICLE	<ul style="list-style-type: none"> <li>• Under drafting ( Detecting and classifying cancerous and non-cancerous masses in breast with the modification of Mask R-CNN and VGG16)</li> </ul>
HONOURS	<ul style="list-style-type: none"> <li>• Ranked in the top 0.3th percentile in Iran’s National Universities Entrance Exam for graduate school.</li> <li>• Among top rank of Department of Engineering during B.S. level, Adiban Institute of Higher Education.</li> </ul>
CERTIFICATION	<p><b>Test Of English as a Foreign Language</b></p> <ul style="list-style-type: none"> <li>• My Best Score: 90 <ul style="list-style-type: none"> <li>○ Reading: 24</li> <li>○ Listening: 23</li> <li>○ Speaking: 20</li> <li>○ Writing: 23</li> </ul> </li> </ul> <p><b>Graduate Record Examinations (GRE)</b></p> <ul style="list-style-type: none"> <li>• Total: 304 <ul style="list-style-type: none"> <li>○ Verbal: 141</li> <li>○ Quantitative: 163</li> </ul> </li> </ul>
PERSONAL	<ul style="list-style-type: none"> <li>• Mountain climbing</li> <li>• Painting chiaroscuro</li> </ul>
REFERENCES	Available upon request.