

## Ahmed Tahseen Minhaz

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Education	M.Sc., Electrical and Electronic Engineering Bangladesh University of Engineering and Technology(BUET)	April 2016- Present
	B.Sc., Electrical and Electronic Engineering Bangladesh University of Engineering and Technology(BUET) <b>CGPA: 3.63 out of 4</b>	2011- March 2016
Work Experience	Computer Vision Researcher, <i>Semion Inc.</i>	November 2016-
Projects	<b>Abnormality detection in chest x-ray images using deep convolutional neural network</b>	
	<ul style="list-style-type: none"><li>Implemented modern CNN architectures such as Alexnet,VGG-16 and ResNet to detect different heart diseases in chest x-rays.</li></ul>	
	<b>Localization of disease in Chest X-Ray images</b>	
	<ul style="list-style-type: none"><li>Using patch removal based approach and class activation mapping to localize which part of the image is responsible for disease classification.</li></ul>	
	<b>Lung and heart segmentation in Chest X-Ray images</b>	
Undergraduate Research	<b>Non-rigid Image Registration and Lung-Heart Segmentation in Chest X-rays using SIFTFlow algorithm</b>	
	<ul style="list-style-type: none"><li>Reproduced an automatic heart and lung segmentation system from chest x-ray images using SIFTFlow based Non-rigid Image Registration.</li></ul>	
	EUProW Lab, BUET	February 2015-March 2016
<b>Sleep Apnea Detection from EEG Signal</b> , under supervision of Prof. Celia Shahnaz		
<ul style="list-style-type: none"><li>Proposed an apnea frame detection using Band Power Ratios of EEG Signal</li><li>Developed an alternative apnea detection method using Empirical Mode Decomposition of EEG Delta Wave</li></ul>		

<b>Journals</b>	<ol style="list-style-type: none"> <li>1. “Abnormality Detection and Localization in Chest X-Rays using Deep Convolutional Neural Networks” M. T. Islam, M. A. Haque, <b>A. T. Minhaz</b>, K. Ashraf. (<a href="#">arXiv</a>)</li> <li>2. “Apnea Frame Detection by Statistical Modeling of EEG Signal Features” A. Bhattacharjee, S. Saha, <b>A. T. Minhaz</b>, S. T. Ahamed, C. Shahnaz, S. A. Fattah; <i>in preparation</i>.</li> </ol>
<b>Proceedings</b>	<ol style="list-style-type: none"> <li>1. “Sub-Frame based Apnea Detection Exploiting Delta Band Power Ratio Extracted From EEG Signals” C. Shahnaz, <b>A. T. Minhaz</b>, S. T. Ahamed; IEEE TENCON 2016, Singapore. (<a href="#">link</a>)</li> <li>2. “Apnea Frame Detection by Empirical Mode Decomposition of Wavelet based Reconstructed Delta Wave of EEG Signals” <b>A. T. Minhaz</b>, C. Shahnaz; IEEE WIECON-ECE 2016, India.</li> </ol>
<b>Skills</b>	<p><b>Programming Languages:</b> Python, MATLAB, C, C++</p> <p><b>Libraries:</b> MatConvNet, TensorFlow, Keras, Scikit-learn, NumPy, SciPy</p>
<b>Standardized Tests Scores</b>	<p>GRE: <b>332 out of 340</b> (Q-170, V-162, AWA-4)</p> <p>TOEFL: <b>109</b> out of 120 (R-30, L-29, S-26, W-24)</p>
<b>Honors and Awards</b>	<ol style="list-style-type: none"> <li>1. Dean’s List Award, BUET (2012-2013)</li> <li>2. Bangladesh Government Scholarship for Excellence in Higher Secondary, Secondary and Junior Board Examination</li> </ol>
<b>Referees</b>	<p><a href="#">Celia Shahnaz</a>, Ph.D.(Concordia University)  Professor, Department of EEE  Bangladesh University of Engineering and Technology(BUET)  celiashahnaz@gmail.com,celia@eee.buet.ac.bd</p> <p><a href="#">Khalid Ashraf</a>, Ph.D.(University of California, Berkeley)  Founder, Semion Inc.  khalid@semion.ai</p> <p><a href="#">Shaikh Anowarul Fattah</a>, Ph.D.(Concordia University)  Professor, Department of EEE  Bangladesh University of Engineering and Technology(BUET)  s.a.fattah@ieee.org,fattah@eee.buet.ac.bd</p>