# Paarth Neekhara

## Education

2017–Present **Masters in Computer Science**, *University Of California San Diego*, *CGPA 4.0*.

2013–2017 **BTech in Computer Science**, *IIT Roorkee*, *CGPA 8.6 (scale of 10)*.

## Experience

Jan–Mar 2018 **Teaching Assistant**, *CSE-253 Neural Networks for Pattern Recognition*, UCSD.
Conducted Discussion sessions on Machine Learning topics, designed assignments, Doubt sessions and grading

Oct–Dec 2017 **Teaching Assistant**, *MUS-206 Machine Learning for Music Generation*, UCSD.
Conducted Doubt sessions, helped students with project proposal ideas, project evaluations

May–July 2016 **Software Engineering Internship**, *Microsoft IDC*, Hyderabad, India.
Worked with the Bing STCI Team and wrote a pipeline to extract Event related data from the distributed cloud database of Microsoft - COSMOS.

May-2015 - Present **Project Lead**, *Blue Water Trade Winds*, Dehradun, India.
Worked with a small team of software engineers to design and implement a web-based software service to plan an optimum route and speed schedule for a voyage. http://bwesglobal.com/boss.html

## Deep Learning Projects

Nov 2017 **Convolutional–VQA**, *https://github.com/paarthneekhara/convolutional-vqa*.
Used a dilated convolutional model for sequence modelling for the task of Visual Question Answering using attention over Visual Features

Dec 2016 **ByteNet**, *https://www.github.com/paarthneekhara/byteNet-tensorflow*.
Implemented the bytenet model of dilated convolutions for sequence to sequence translation from the DeepMind's paper "Neural Machine Translation in Linear Time" .

Oct–Dec 2016 **Unsupervised Image to Image Translation**, *https://arxiv.org/abs/1701.02676*.
Worked remotely with PhD students from Imperial College London, on the task of domain translation using an Auxiliary GAN. A trained generator network was inverted to project back to latent space and cross-conditioned to synthesize corresponding image in a different domain.

Aug 2016 **Text To Image Synthesis**, *https://www.github.com/paarthneekhara/text-to-image*.
Developed a tensorflow implementation of synthesizing images from text by conditioning a generative adversarial network with skip thought vectors. Used the GAN-CLS algorithm from the paper "Generative Adversarial Text-to-Image Synthesis" and conditioned it with uni-skip vectors.

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## Relevant Courses

Graduate CSE-250A Probabilistic Graphical Models, CSE-293 Convex Optimization, CSE-250B Machine Learning Statistical Approach

Online Stanford CS-231n, Stanford CS-224d

## Hobbies

Cycling, Running, Trekking, Photography

## Achievements

- National Runners Up, Microsoft Code Fun Do Finalist Forum, India - 2016
- College Runners Up, Microsoft Code Fun Do, IIT Roorkee - 2015

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