

# Paarth Neekhara

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## EDUCATION

### IIT ROORKEE

B.TECH IN COMPUTER SCIENCE

2013 - Present | Roorkee

Cum. GPA: 8.55 (Scale of 10)

## LINKS

Website:// [paarthneekhara.github.io](http://paarthneekhara.github.io)

Github:// [paarthneekhara](https://github.com/paarthneekhara)

LinkedIn:// [paarth-neekhara-4161a787](https://www.linkedin.com/in/paarth-neekhara-4161a787)

## RELEVANT COURSES

### UNDERGRADUATE

Design and Analysis of Algorithms

Optimization Techniques

Operating Systems

Artificial Intelligence

Machine Learning

### ONLINE

Machine-Learning - Coursera

CS231n - Convolutional Neural Networks  
for Visual Recognition.

CS224d - Deep Learning for Natural  
Language Processing

## SKILLS

### PROGRAMMING

Programming Languages:

Python • JavaScript • Java • C++  
PHP

Web Technologies:

HTML • CSS • JavaScript • django

## EXTRA CURRICULAR

### INTERESTS:

Cycling, Photography, Hiking, Table Tennis.

### POSITIONS:

Joint Secretary Photography Section, IIT  
Roorkee (2015-2016)

Member of Editorial board of a literary  
magazine Kshitij, IIT Roorkee  
(2013-2014)

Mentor in Student Mentorship Program,  
IIT Roorkee (2016 - Present)

## EXPERIENCE

### MICROSOFT | SOFTWARE ENGINEERING INTERN

May 2016 – July 2016 | 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. Worked with SCOPE script for building the extraction pipeline and wrote processors and reducers in C# to analyse it.

### BLUE WATER TRADE WINDS | SOFTWARE ENGINEERING INTERN

May 2015 – July 2015 | Dehradun, India

- Worked on full stack development of a django application for weather route optimization and monitoring of ships. My Tasks involved:
- Tasks involved - modelling the ship responses to weather using data from Voyage abstracts, designing a dynamic programming algorithm for weather route optimization with speed scheduling on a bounded grid in the ocean, and integration of the modules with the django application.

## DEEP LEARNING PROJECTS

### BYTENET | November 2016 – Present

<https://www.github.com/paarthneekhara/byteNet-tensorflow>

Implemented the bytenet model of dilated convolutions for sequence to sequence translation from the paper "Neural Machine Translation in Linear Time" (<https://arxiv.org/abs/1610.10099>).

### TEXT TO IMAGE SYNTHESIS | August 2016

<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" (<http://arxiv.org/abs/1605.05396>) and conditioned it with uni-skip vectors.

### VISUAL QUESTION ANSWERING - TENSORFLOW | August 2016

<https://www.github.com/paarthneekhara/neural-vqa-tensorflow>

Implemented the VIS+LSTM model from the paper "Exploring Models and Data for Image Question Answering" (<http://arxiv.org/abs/1505.02074>) in tensorflow, to improve my understanding about linking language and vision and also get acquainted with a deep learning library.

## CURRENTLY DEVELOPING

### RTIFEED | August 2015 - Present

<http://www.rtifeed.com>

RTIFeed is a social platform to share authentic information amongst masses. Worked on the django based back-end of RTIFeed which powers both the web-based and mobile-based applications. RTIFeed stood runners up in Microsoft Code Fun Do Finalist Forum, held on a National Level in India.

## AWARDS

2016	National Runners Up	Microsoft Code Fun Do Hackathon, Finalist Forum
2015	College Runners Up	Microsoft Code Fun Do, IIT Roorkee
2012	Gold Medalist	DPS RK Puram, Academic Excellence in class 11th