

# ANIKET DIDOLKAR

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www.aniketdidolkar.in

<https://github.com/dido1998/>

## EXPERIENCE

### Google Summer of Code

#### NumFocus

May 2019 – Present

Remote

- Working for Chainer which comes under the NumFocus umbrella.
- Building recurrent neural network support for ChainerX. ChainerX is a deep learning library built completely using C++.
- Implemented the CPU and GPU versions of LSTM, GRU, Vanilla RNN etc. The GPU versions were built using the CUDNN library provided by NVIDIA.

### Automation Intern

#### Ubisoft India Studios

May 2019 – July 2019

Pune, India

- Worked on solving UI-related bugs such as collision bugs and pass-through bugs.
- Used deep learning approaches for semantic segmentation and depth estimation on the given frames from the game.
- The output of the final solution was a collision probability for each pixel in the frame. This algorithm was able to identify buggy frames with 85% accuracy.

### Research Intern

#### Midas Lab, IIIT Delhi

April 2019 – Present

Remote

- Working under the guidance of Dr. Rajiv Ratn Shah.
- Working on Social Media Analysis and Natural Language Processing. Paper accepted at ACL-SRW 2019.

### Undergraduate Researcher

#### Project Manas

Feb 2018 – Feb 2019

Manipal, India

- Implemented, compared and analyzed the performance of various reinforcement learning algorithms (DQN, PPO, ACER, A3C) on environments provided by OpenAI gym.
- Mentored 3 juniors for the task of designing an imitation learning algorithm for the udacity self-driving car simulator.

### Data Science Intern

#### Rammer.ai

June 2018 – July 2018

Pune, India

- Wrote scripts to automate tasks related to training and testing deep learning models.
- Implemented various deep learning architectures using tensorflow for the task of action-items detection in meeting transcripts.

## PUBLICATIONS

- ARHNet - Leveraging Community Interaction For Detection Of Religious Hate Speech In Arabic.  
**Aniket Didolkar**, Arijit Ghosh Chowdhury, Ramit Sawhney, and Rajiv Ratn Shah **ACL-SRW 2019**
- Re-h-detach: Modifying the LSTM gradient towards better optimization.  
**Aniket Didolkar** **ReScience C 5, 2, 4**. (Paper accepted as a part of the **ICLR Reproducibility Challenge 2019**)

## EDUCATION

Bachelor of Technology (Computer Science and Engineering)

#### Manipal Institute of Technology

2020

Manipal

- 9.30 CGPA

## SKILLS

- Python, C/C++, JAVA, Matlab,  $\text{\LaTeX}$
- Pytorch, Tensorflow, Linux, CUDA, ChainerX, Numpy, CUDNN

## PROJECTS

ICLR 2019 Reproducibility Challenge

[https://rescience.github.io/bibliography/Didolkar\\_2019.html](https://rescience.github.io/bibliography/Didolkar_2019.html)

Dec 2018

- Accepted as one of the 4(out of 24) papers to appear in the Volume 5, Issue 2 of ReScience Journal.

Pruning Neural Networks

<https://github.com/dido1998/pruning>

Dec 2018-Jan 2018

- Performed weight pruning and unit pruning on a simple fully-connected neural network. Showed that up to 90% of the weights can be pruned without a considerable drop in accuracy and utilized this to speed up inference by upto 30%.

DeepJava

<https://github.com/dido1998/DeepJava>

Sep 2018

- Deep learning operations in Java developed from scratch. It correctly handles gradient flow using the backpropagation algorithm for various operations defined in a computation graph (eg: convolutional layers, fully connected layers etc. ).