ANIKET DIDOLKAR

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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

- 9.22 CGPA (6 semesters)

SKILLS

- Python, C/C++, JAVA, Matlab
- Pytorch, Tensorflow, Linux, CUDA, ChainerX, Numpy, CUDNN

PROJECTS

ICLR 2019 Reproducibility Challenge

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.).