Vighnesh Birodkar

♦ http://vighneshbirodkar.github.io/ ⋈ vighneshbirodkar@nyu.edu ♦ +1 551-253-7018

EDUCATION

MS in Computer Science - GPA: 3.93/4

2015 - 2017

New York University - Courant Institute, New York, USA

B.Tech Computer Science & Engineering - GPA: 8.05/10

2010 - 2014

National Institute of Technology, Goa, India

PUBLICATIONS

• Emily Denton, Vighnesh Birodkar "Unsupervised Learning of Disentangled Representations from Video" – Neural Information Processing Systems, Long Beach, California December 2017

Marcelo Cicconet, Vighnesh Birodkar, Mads Lund, Michael Werman, Davi Geiger "A convolutional approach to reflection symmetry" – Pattern Recognition Letters
August 2017

WORK EXPERIENCE

Research Scientist, FeatureX, Inc.

June 2017- Present

- Implemented deep-learning algorithms for pan-sharpening, object detection and image alignment in satellite images.
- Assisted with the development the company's SaaS platform for satellite image analysis.

Research Assistant, Prof. Davi Geiger

September 2016 - December 2016

- Action recognition in videos using Deep Neural Networks.
- Study the effects of imposing linear constraints on latent vectors through time.

Junior Data Scientist, NYU Centre for Data Science

September 2015 - May 2016

- Implemented machine learning algorithms for scikit-learn.
- Created the project template for scikit-learn-contrib.

Software Development Engineer, Samsung Research India

June 2014 - June 2015

- Embedded application development in Printers Division.
- Revamped the Firmware Update process.

Internships

Deep Learning Intern, Butterfly Network Inc.

January~2017-May~2017

- Developed deep-learning algorithms to assist capturing medically informative ultrasound views of the heart.
- Defined data collection formats and implemented data collection and storage pipeline.

Summer Intern, DeepMagic Inc.

June 2016 - August 2016

- Collected and augmented images.
- Designed and deployed deep networks for image recognition.

Google Summer of Code Student, Python Software Foundation

June 2014 - September 2014

- Designed Region Adjacency Graph Data structures from scikit-image.
- Implemented Region Adjacency Graph based segmentation algorithms.

Google Summer of Code Student, Simple CV

June 2013 - September 2013

- Designed a Display System for local applications in Python.
- Designed a Display System for remote applications using Python, HTML and Javascript.

Summer Intern, IIT Bombay

May 2013 - June 2013

- Designed a Visual Programming Environment for Arduino Boards
- Ported the Visual Programming Environment for Windows, Linux and Android