Dilip Thiagarajan

http://linkedin.com/in/dthiagar
dt372@cornell.edu | 571.318.1224

SKILLS

PROGRAMMING

Proficient in:
Python, Java, Octave/MATLAB, C/C++
Familiar with:
R, OCaml, SQL, HTML, CSS, JavaScript
ML Backends:
TensorFlow • PyTorch • Caffe2
ML Frontends:
Keras, FastAI

EDUCATION

CORNELL UNIVERSITY

B.A.: CS and Mathematics
Tanner Dean's Scholar
Major GPA: 4.0/4.0

THOMAS JEFFERSON HSST

Grad: June 2015
GPA: 4.4/4.0

COURSEWORK

IN PROGRESS

Computer Vision (grad.)
Bayesian Machine Learning (grad.)
Advanced Topic Modeling

COMPLETED

Computer Vision
Bayesian Machine Learning
Operating Systems
Probability Theory
Natural Language Processing
Computational Genetics and Genomics
Supervised Machine Learning
Analysis of Algorithms
Numerical Analysis
Language and Information
ML for Data Science
System Organization & Programming
Probability & Statistics
Manifolds & Differential Forms
Functional Programming
Linear Algebra
Applicable Algebra
Bioinformatics Programming
OO Design & Data Structures
Discrete Structures
Probability Theory

WORK EXPERIENCE

FACEBOOK | Ads Ranking ML Algorithms | SWE Intern

June 2018 - August 2018 | Menlo Park, CA

- Incorporating ad preview images into categorizing them using embedding and attentional techniques from recent deep learning research. (Caffe2)
- Involved extensive usage of Facebook's internal image representation algorithms and database querying libraries.

GOOGLE | Cloud AI | SWE Intern

June 2017 - August 2017 | Sunnyvale, CA

- Used weakly supervised ML techniques to analyze the difficulty of image classification problems with images labeled using crowd-compute labels.
- Involved extensive usage of Google's internal image indexing, MapReduce library and database querying libraries.

HUMAN DX | Engineering Intern

December 2016 - February 2017 | Remote

- Using advances in sequence-to-sequence learning for learning machine translation of patient diagnoses based on symptoms. (TensorFlow)

CORNELL UNIVERSITY | Teaching Assistant: CS 4780/4786/2800

January 2016 - Dec 2016 | Aug 2017 - May 2018 Ithaca, NY

- Held office hours answering student questions regarding course material, and assisted in grading problem sets and exams for students enrolled in the course.

MEANWISE | ML Team Lead

June 2016 - November 2016 | Remote

- Implemented classical machine learning techniques to match talent with companies based on personality and organizational culture. (IBM Watson)

NATIONAL INSTITUTES OF HEALTH | CS Research Intern

June 2014 - Sep 2014 | Bethesda, MD

- Modeled functional ties between enhancers and silencers and the tissue-specificity of the resulting groups by implementing non-parametric algorithms in Python with parallel processing.

PROJECT WORK

CORNELL UNIVERSITY | Undergraduate Researcher

August 2018 - | Ithaca, NY

- Using image input and LIDAR for stereo depth adapation to optimize for different domains using deep learning.

CORNELL UNIVERSITY | Undergraduate Researcher

August 2018 - | Ithaca, NY

- Evaluating performance of Gaussian processes with parameters learned using deep kernel learning on the object localization problem.

CORNELL TECH | Undergraduate Researcher

June 2016 - August 2016 | NYC, NY

- Re-implementing a CV project to recognize in-situ groceries using Tensorflow.
- Building convolutional nets specifically for the task of recognizing groceries on the shelf using genetic algorithms.

CORNELL UNIVERSITY | Undergraduate Researcher

April 2016 - June 2016 | Ithaca, NY

- Working to implement a usable module for stochastic depth in deep learning frameworks in Caffe, under the supervision of Prof. Kilian Weinberger.