Dilip Thiagarajan

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SKILLS

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

EDUCATION

CORNELL UNIVERSITY
M. Eng. (CS/ML), BA (CS/Math)
August 2015 - May 2019

THOMAS JEFFERSON HSST
High School
September 2011 - June 2015

SELECT COURSEWORK
ML/CV/Applied Math
Principles of Large-Scale ML Systems
Mathematical Foundations for the Information Age
Advanced Machine Learning
Computer Vision (grad.)
Bayesian Machine Learning
Advanced Topic Modeling
Supervised Machine Learning
ML for Data Science
Operating Systems
Probability Theory
Natural Language Processing
Computational Genetics/Genomics
Analysis of Algorithms
Numerical Analysis
Language and Information
Manifolds & Differential Forms
Functional Programming
Linear Algebra
Bioinformatics Programming
OO Design & Data Structures
Discrete Structures

WORK EXPERIENCE

PAIGE.AI | AI Engineer
March 2020 - Present | NYC, NY
- Working on deep learning algorithms which transform the diagnosis of cancer.

FACEBOOK | Business Integrity ML | SWE
August 2019 - March 2020 | MPK, CA
- Building ML systems (vision, NLP) to detect and reduce prevalence of harmful political ads across FB apps.

FACEBOOK AI / CORNELL TECH | Contractor / Researcher
June 2019 - August 2019 | NYC, NY
- Working towards counterfeit ID detection via generative methods such as StyleGAN, FineGAN.
- Fine-tuning existing detection and recognition methods (e.g. Rosetta) for text in IDs.

FACEBOOK | Ads Content Understanding | SWE Intern
June 2018 - August 2018 | MPK, 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)

RESEARCH

CORNELL UNIVERSITY | Graduate Researcher
August 2018 - Present | Ithaca, NY
- Evaluating performance of Gaussian processes with parameters learned using deep kernel learning on the object localization problem (COCO).
- Using image input and LIDAR for stereo depth adapation to optimize for different domains using deep learning.

PROJECTS

BREAST CANCER CLASSIFICATION | Computer Vision (grad.)
- Using deep kernel learning (deep learning combined with Gaussian processes) to classify malignant and benign tumors.
- Utilize the learned network parameters/GP hyper-parameters for improvements when training with limited data.