Prathamesh Dharangutte

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Research Interests

Theoretical machine Learning, Optimization, Algorithms.

Education

New York University — *NY, USA*
Master of Science in Computer Science, 3.77/4 GPA — *September 2019 - Present*
- *Key courses*: Algorithmic Machine Learning and Data Science, Mathematical Tools for Data Science, Machine Learning, Big Data.

University of Pune — *Pune, India*
Bachelor of Engineering in Computer Engineering, 8.22/10 CGPA — *July 2013 - May 2017*
- *Key courses*: Design and Analysis of Algorithms, Natural Language Processing, Data mining, Operating systems, Computer networks, Theory of Computation.

Publications

Authors appear in alphabetical order.

Dynamic Trace and Spectral Density Estimation
Prathamesh Dharangutte, Christopher Musco. *In progress*.

Graph Learning for Inverse Landscape Genetics
Prathamesh Dharangutte, Christopher Musco.
AAAI *Conference on Artificial Intelligence* (AAAI 2021).

Research Experience

New York University Tandon — *Brooklyn, NY*
Graduate Student Researcher — *Fall 2019 - Present*
- Advised by: Prof. Christopher Musco

Teaching Experience

Introduction to Machine Learning (NYU CS-UY 4563)
Teaching Assistant — *Spring 2020*
Instructor: Prof. Christopher Musco
New York University Tandon

Professional Experience

HSBC Software Development — *Pune, India*
Software Engineer — *August 2017 - November 2018*
- Developed and maintained web application for internal use.
- Restructured the architecture of RTC plugin for better scaling.
- Developed chatbot for internal use within teams at the organization.

Prism IT Solutions — *Pune, India*
Software Engineer Intern — *December 2015 - May 2016*
- Developed a framework for processing and extracting insights from XML data using Apache Spark.
- Surveyed algorithms for determining emotion in audio to integrate with company's product.

Projects

Energy-based Graph Neural Networks

- Studied Graph Convolutional Networks from an energy-based view with the aim of creating a more robust classifier.
- Course instructor: Prof. Carlos Fernandez-Granda

Expressive English TTS system

- Studied how emotions cause variation in human speech and ways to incorporate it into a Text-To-Speech system.
- Advised by: Prof. Girish Potdar

Technical Skills

Programming	Python, Java, Javascript
Tools and Libraries	PyTorch, Tensorflow, Django, Spark, Spring