

Prathamesh Dharangutte

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Research Interests

Theoretical machine Learning, algorithms.

Education

Rutgers University

PhD in Computer Science

NJ, USA

Sept. 2021 - Present

- *Key courses:* Economics and Computation

New York University

Master of Science in Computer Science, 3.77/4 GPA

NY, USA

Sept. 2019 - May 2021

- *Key courses:* Algorithmic Machine Learning and Data Science, Mathematical Tools for Data Science, Machine Learning, Design and Analysis of Algorithms I

University of Pune

Bachelor of Engineering in Computer Engineering, 8.22/10 CGPA

Pune, India

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. Exceptions are marked with *

Dynamic Trace Estimation

Prathamesh Dharangutte, Christopher Musco.

Conference on Neural Information Processing Systems (NeurIPS) 2021.

An Energy-Based View of Graph Neural Networks*

John Y. Shin, Prathamesh Dharangutte

Energy-Based Models Workshop (ICLR 2021).

Graph Learning for Inverse Landscape Genetics

Prathamesh Dharangutte, Christopher Musco.

AAAI Conference on Artificial Intelligence (AAAI 2021).

Research Experience

New York University Tandon

Graduate Student Researcher

Brooklyn, NY

Sept 2019 - May 2021

- Advised by: Prof. Christopher Musco

Teaching Experience

Mathematical Foundations of Data Science (CS 501)

Teaching Assistant

Fall 2021

Instructor: Prof. Charles Cowan

Rutgers University

Introduction to Machine Learning (CS-UY 4563)

Teaching Assistant

Spring 2020

Instructor: Prof. Christopher Musco

NYU

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

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, Matlab
Tools and Libraries	PyTorch, Tensorflow, Django, Spark, Spring