

# Prathamesh Dharangutte

☎ (+1) 6463530160 | ✉ prathamesh.d@nyu.com | 🏠 prathameshtd.github.io | 📄 prathameshtd | 🎓 Scholar

## Research Interests

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Statistical Learning Theory, Optimization, Machine Learning.

## Education

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### New York University Tandon

NY, USA

MS 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.

### PICT

Pune, India

BE 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

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Authors appear in alphabetical order.

### Graph Learning for Inverse Landscape Genetics

Prathamesh Dharangutte, Christopher Musco. *In submission.* (2020)

## Research Experience

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### New York University Tandon

Brooklyn, NY

Graduate Student Researcher

Spring 2020 - Present

- Advised by: Prof. Christopher Musco

## Teaching Experience

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### Introduction to Machine Learning (NYU CS-UY 4563)

Teaching Assistant

Spring 2020

Instructor: Prof. Christopher Musco

New York University Tandon

## Professional Experience

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### 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

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### Energy-based Graph Neural Networks

- Studied Graph Convolutional Networks from an energy-based view with the aim of creating a more robust classifier.
- Advised by: 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

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