Prathamesh Dharangutte

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□ prathameshtd.github.io

RESEARCH INTERESTS

 I am broadly interested in algorithms for big data analysis. Currently, I am exploring practical and robust algorithms for problems in differential privacy. I am also interested in numerical linear algebra and machine learning.

EDUCATION

PhD in Computer Science

Rutgers University

MS in Computer Science

New York University

Thesis: Dynamic Trace Estimation.

o B.E. in Computer Engineering

Pune University

Advisor: Jie Gao

Sept 2021 – Present

Advisor: Christopher Musco

Aug 2019 – May 2021

July 2013 - May 2017

PUBLICATIONS

Authors appear in alphabetical order. Exceptions are marked by *.

Conference papers.....

Integer Subspace Differential Privacy

Prathamesh Dharangutte, Jie Gao, Ruobin Gong, Fang-Yi Yu AAAI Conference on Artificial Intelligence (AAAI 2023). [*Link*]

o A Tight Analysis of Hutchinson's Diagonal Estimator

Prathamesh Dharangutte, Christopher Musco

SIAM Symposium on Simplicity in Algorithms (SOSA 2023). [Link]

Dynamic Trace Estimation

Prathamesh Dharangutte, Christopher Musco

Conference on Neural Information Processing Systems (NeurIPS) 2021. [Link]

Graph Learning for Inverse Landscape Genetics

Prathamesh Dharangutte, Christopher Musco

AAAI Conference on Artificial Intelligence (AAAI) 2021. [Link]

Workshop paper.....

An Energy-Based View of Graph Neural Networks

John Y. Shin*, Prathamesh Dharangutte*

Energy-Based Models Workshop (EBM-ICLR) 2021. [Link]

TEACHING EXPERIENCE

TA, Machine Learning Principles (Rutgers CS461)

Fall 2022

TA, Data Management for Data Science (Rutgers CS210)

Spring 2022

TA, Mathematical Foundations of Data Science (Rutgers CS501)

Fall 2021

TA, Introduction to Machine Learning (NYU CS-UY 4563)

Spring 2020

PROFESSIONAL EXPERIENCE

HSBC Software Development

Software Engineer

Aug 2017 – Nov 2018 Pune, India

SERVICE

Reviewer: AISTATS'23. Student volunteer: AAAI'21.