APOORV VIKRAM SINGH

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EDUCATION

New York University, Tandon School of Engineering
Ph.D. Student in Computer Science Sept 2020 – Present
Advisor: Christopher Musco

International Institute of Information Technology, Bangalore
Integrated Masters of Technology Aug 2013 – July 2018
Information Technology, Specialization: Theoretical Computer Science
Thesis: Clustering Perturbation Resilient Instances
Advisor: G. Srinivasaraghavan

EXPERIENCE

Visiting Researcher, INRIA Lille Oct 2019 – Jan 2020
MODAL Team, INRIA Lille, France
Advisor(s): Hemant Tyagi (INRIA), Mihai Cucuringu (Univ. of Oxford)

Project Associate, IISc Bangalore Aug 2018 – Aug 2019
Department of CSA, Indian Institute of Science (IISc)
Advisor(s): Anand Louis (IISc), Amit Deshpande (Microsoft Research)

Narendra Summer Intern, IISc Bangalore Summer 2017
Department of CSA, Indian Institute of Science
Advisor: Anand Louis

ONGOING

1. On limitations of Method of Moments.
2. Structured Spectrum Approximation.

PUBLICATIONS

1. **Regularized Spectral Methods for Clustering Signed Networks**
(with Mihai Cucuringu, Deborah Sulem, and Hemant Tyagi)
JMLR 2021, (Link)
2. **On Euclidean k-Means Clustering with α-Center Proximity**
(with Amit Deshpande, and Anand Louis)
AISTATS 2019, (Link)
3. **Approximation Algorithms for Cost-Balanced Clustering**
(with Amit Deshpande, Anand Louis, and Deval Patel)
Preprint 2019, (Link)

TEACHING

- **E0306: Deep Learning, Theory and Practice** Spring 2019
Grader for the course at IISc Bangalore
- **E0203: Spectral Algorithms** Spring 2018
Grader for the course at IISc Bangalore

NYU COURSES

- Probability Theory 1 & 2
- Intro to Analysis 2
- Advanced ML
- Concentration of Measure
- Algorithmic ML & DS
- Bayesian ML
- Info Thy Methods in Stats
- Mathematical Statistics
- Rand Numerical LA

SERVICE

Sub-reviewer for FOCS 2022.