

On Efficient Sketching Algorithms

Praneeth Kacham

Thesis Committee:

David Woodruff

CMU

Pravesh Kothari

CMU

Richard Peng

CMU

Rasmus Pagh

U. of Copenhagen

Introduction

- Datasets these days are very large and presented to us in different ways
- Many existing algorithms assume arbitrary access to input data and run in super-linear time
- Can these algorithms reasonably handle large inputs which maybe presented in unconventional ways?