DIT IS DE TITEL VAN MIJN AFSTUDEERVERSLAG

by

Tjibbe van der Ende

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	titles and name of the supervisor (supervisor),	Open University

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1

INTRODUCTION

This is just to show how to include a tex file for a chapter, with a reference [Dijkstra, 1968].

1.1. RESEARCH QUESTIONS

Main question:
How can the nD-Laplace algorithm be applied in training privacy-preserving clustering algorithms on distributed n-dimensional data?

1. RQ1: How can 2D-Laplace be used to protect the data privacy of 2-dimensional data which is employed for training clustering algorithms?
2. RQ2: How can 3D-Laplace be extended to protect the data privacy of n-dimensional data which is employed for training clustering algorithms?
3. RQ3: What is the impact of different privacy budgets, dataset properties, and other clustering algorithms on the research conducted for research question 2?

2

Theoretical Framework

3

METHODOLOGY

To gain insights into the proposed methods for researching the appliance of (ND)-Laplace for cluster algorithms we conducted experiments. The experiment results are used to evaluate our method against other literature. In this chapter we explain:

1. Datasets
2. Environmental setup.
3. For each research question: Description of the different experiments.
4. For each research question: Results.

3.1. DATASETS

For this research, we will use a synthetic dataset for all three research questions.

Records	Centers	Dimensions	Standard deviation	Research
200	4	2	0.60	RQ 1

Research question 3 uses a "real-world" dataset to properly assess the different dataset properties that are the subject of this research question.

Describe datasets

3.2. ENVIRONMENTAL SETUP

Describe the exact environment details

BIBLIOGRAPHY

Edsger W Dijkstra. Go to statement considered harmful. *Communications of the ACM*, 11 (3):147–148, 1968. 1