

Master Thesis
Recommender Systems Comparison

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$$w = (\lambda I + X^T X)^{-1} X^T Y$$

Figure 1:

1 Intro

2 Collaborative filtering

2.1 Content based

2.2 Latent Factors

3 Our Experiment

3.1 Infrastructure

3.1.1 Apache Spark

3.2 Dataset

3.3 Metrics

3.3.1 Mean Absolute Error

3.3.2 Execution Time

[1] [2] [3]

4	Results
5	Conclusion
6	references

Part I

test

A Appendix relevant code

A.1 Appendix A.a: User Based Collaborative Filtering 8

A.2 Appendix A.b: Product Based Collaborative Filtering 8

A.3 Appendix A.c: Latent Factors

B

Title of Appendix A

Text of Appendix A is Here

C

Title of Appendix B

Text of Appendix B is Here

D apendixB Metrics

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List of Figures

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Appendix C List of Tables

List of Tables

References

- [1] “Apache Spark lightning-fast cluster computing.” <https://spark.apache.org/>. Accessed: 2017-05-21.
- [2] P. Melville and V. Sindhwani, “Recommender systems,” *Encyclopedia of Machine Learning and Data Mining*, pp. 1056–1066, 2017.
- [3] “MovieLens grouplens.” <https://grouplens.org/datasets/movielens/>. Accessed: 2017-05-22.