

PRESENTATION OUTLINE: — Collaborative Filtering based Movie Recommendation System —

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1 Introduction

- purpose of the project
- Why is it important

2 Previously explored methods and their shortcomings

- Content based method
- Knowledge based
- Collaborating Filtering
- Hybrid method

3 Basic Idea of collaborating Filtering (CF)

- Input structure representation
- Input as a sparse matrix
- finding latent feature from matrix factorization

4 General CF algorithm in parallel environment

- Algorithm
- Ways to perform the algorithm in parallel
- Approach in both GPU CPU computing

5 Selected CF algorithm for CPU computing

- Algorithm
- Ways to perform the algorithm in parallel
- Incorporating Apache Spark Apache Mahout

6 Data set for algorithm

- Source of the data set
- Size description of the data set

7 Implementation

- Step by step description of implementation

8 Result analysis

- Result from implementation
- Comparison of result with previous methods

9 Conclusion

- Shortcomings
- Improvement ideas