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Recommendation Systems From Introduction to Empirical

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Chapter 1

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1.1 Evolution of Recommendation Systems

1.2 Applications of Recommendation Systems

1.3 Advanced Topics in Recommendation Systems

1.4 Summary

1.5 Bibliographic Notes

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Chapter 2

Traditional Recommendation Systems

2.1 Collaborative Filtering

2.2 Content-based Recommendation Systems

2.3 Knowledge-based Recommendation Systems

2.4 Ensemble Recommendation Systems

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Chapter 3

Deep Recommendation Models

3.1 CNN-based Recommendation Models

3.2 RNN-based Recommendation Models

3.3 Deep RL-based Recommendation Models

3.4 Deep Embeddings

3.5 Transformers in Recommendation Systems

3.6 Hybrid Recommendation Models

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Chapter 4

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Chapter 5

Empirical Recommendation Systems

5.1 Web-based Recommendation Systems

5.1.1 Image Recommendation Systems

5.1.2 Video Recommendation Systems

5.1.3 Product Recommendation Systems

5.1.4 Social Recommendation Systems

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Chapter 6

System Evaluations

6.1 Offline Performance Metrics

6.2 Online Evaluations

6.2.1 Online Metrics

6.2.2 A/B Testing

6.2.3 Interleaving

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Chapter 7

Advanced Topics

7.1 Context Sensitivity

7.2 Time and Location Sensitivity

7.3 Sociality and Trust

7.4 Attack Resistance

7.5 Fair Recommendation

7.6 Privacy Preservation

7.7 Personalization

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Appendix A

Appendix

All's well that ends well

A.1 Math Appendix

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