



Introduction to the course

Course Introduction

No problem scores in this section

Course Overview

No problem scores in this section

Course Outline

No problem scores in this section

Pre-Assignment: Introduce yourself

No problem scores in this section

Week 1: Algorithms 1

1a Introduction to Algorithms (2/2) 100%

Homework due Feb 11, 2016 05:00 IST

Problem Scores: 2/2

1b Tools to Analyze Algorithms (2/2) 100%

Homework due Feb 11, 2016 05:00 IST

Problem Scores: 2/2

1c Algorithmic Technique: Divide and Conquer

No problem scores in this section

1d Divide and Conquer Example: Investing (2/2) 100%

Homework due Feb 11, 2016 05:00 IST

Problem Scores: 2/2

1e Randomization in Algorithms (3/3) 100%

Homework due Feb 11, 2016 05:00 IST

Problem Scores: 3/3

1f Application Area Scheduling 1

No problem scores in this section

1g Application Area Scheduling 2 (0/3)

Practice Scores: 0/3

Algorithms 1: Suggested Readings

No problem scores in this section

Week 2: Algorithms 2

2a Graphs (3/3) 100%

Homework *due Feb 11, 2016 05:00 IST*

Problem Scores: 3/3

2b Some Ideas Behind Map Searches 1

No problem scores in this section

2c Some Ideas Behind Map Searches 2 (2/2) 100%

Homework *due Feb 11, 2016 05:00 IST*

Problem Scores: 2/2

2d Application of Algorithms: Stable Marriages Example (3/3) 100%

Homework *due Feb 11, 2016 05:00 IST*

Problem Scores: 3/3

2e Dictionaries and Hashing (3/3) 100%

Homework *due Feb 11, 2016 05:00 IST*

Problem Scores: 3/3

2f Search Trees (4/4) 100%

Homework *due Feb 11, 2016 05:00 IST*

Problem Scores: 4/4

2g Dynamic Programming 1

No problem scores in this section

2h Dynamic Programming 2 (2/2) 100%

Homework *due Feb 11, 2016 05:00 IST*

Problem Scores: 2/2

Algorithms 2: Suggested Readings

No problem scores in this section

Week 3: Algorithms  
3

3a Linear Programming 1

No problem scores in this section

3b Linear Programming 2 (2/2) 100%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 2/2

3c NP-completeness 1

No problem scores in this section

3d NP-completeness 2

No problem scores in this section

3e NP-completeness 3 and Summary (7/7) 100%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 7/7

3f Introduction to Personal Genomics (1/1) 100%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 1/1

3g Massive Raw Data In Genomics (5/5) 100%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 5/5

3h Data Science On Personal Genomes (2/2) 100%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 2/2

3i Interconnectedness Of Personal Genomes (4/4) 100%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 4/4

3j Personal Genomics Case Studies (1/2) 50%

Homework *due Feb 18, 2016 05:00 IST*

Problem Scores: 1/2

3k Personal Genomics Conclusion

No problem scores in this section

Week 4: Machine Learning 1

4a What Is Machine Learning 1

No problem scores in this section

4b What Is Machine Learning 2

No problem scores in this section

4c Classification (2/2) 100%

Homework *due Feb 25, 2016 05:00 IST*

Problem Scores: 2/2

4d Linear Classifiers (2/2) 100%

Homework *due Feb 25, 2016 05:00 IST*

Problem Scores: 2/2

4e Ensemble Classifiers (0/3)

*due Feb 25, 2016 05:00 IST*

Practice Scores: 0/3

4f Model Selection

No problem scores in this section

4g Cross Validation (2/3) 67%

Homework *due Feb 25, 2016 05:00 IST*

Problem Scores: 2/3

4h Machine Learning Summary

No problem scores in this section

Machine Learning: Suggested Readings

No problem scores in this section

Week 5: Machine Learning 2 - Applications

5a Machine Learning Application: Probabilistic Modeling 1

No problem scores in this section

5b Probabilistic Modeling 2

No problem scores in this section

5c Topic Modeling

No problem scores in this section

5d Probabilistic Inference (4/4) 100%

Homework *due Mar 3, 2016 05:00 IST*

Problem Scores: 4/4

5e Machine Learning Application: Prediction of Preterm Birth

No problem scores in this section

5f Data Description and Preparation (2/2) 100%

Homework *due Mar 3, 2016 05:00 IST*

Problem Scores: 2/2

5g Methods for Prediction of Preterm Birth

No problem scores in this section

5h Results and Discussion

No problem scores in this section

5i Summary and Conclusion (3/4) 75%

Homework *due Mar 3, 2016 05:00 IST*

Problem Scores: 3/4

5j Relation Between Machine Learning and Statistics (3/4) 75%

Homework *due Mar 3, 2016 05:00 IST*

Problem Scores: 3/4

Machine Learning Applications: Suggested Readings

No problem scores in this section

Extra Credit Assignment (3/3) 100%

Homework *due Mar 3, 2016 05:00 IST*

Problem Scores: 3/3

Conclusion

No problem scores in this section



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