ed X   **ColumbiaX:** CSMM.101x Artificial Intelligence (AI)   **Help**
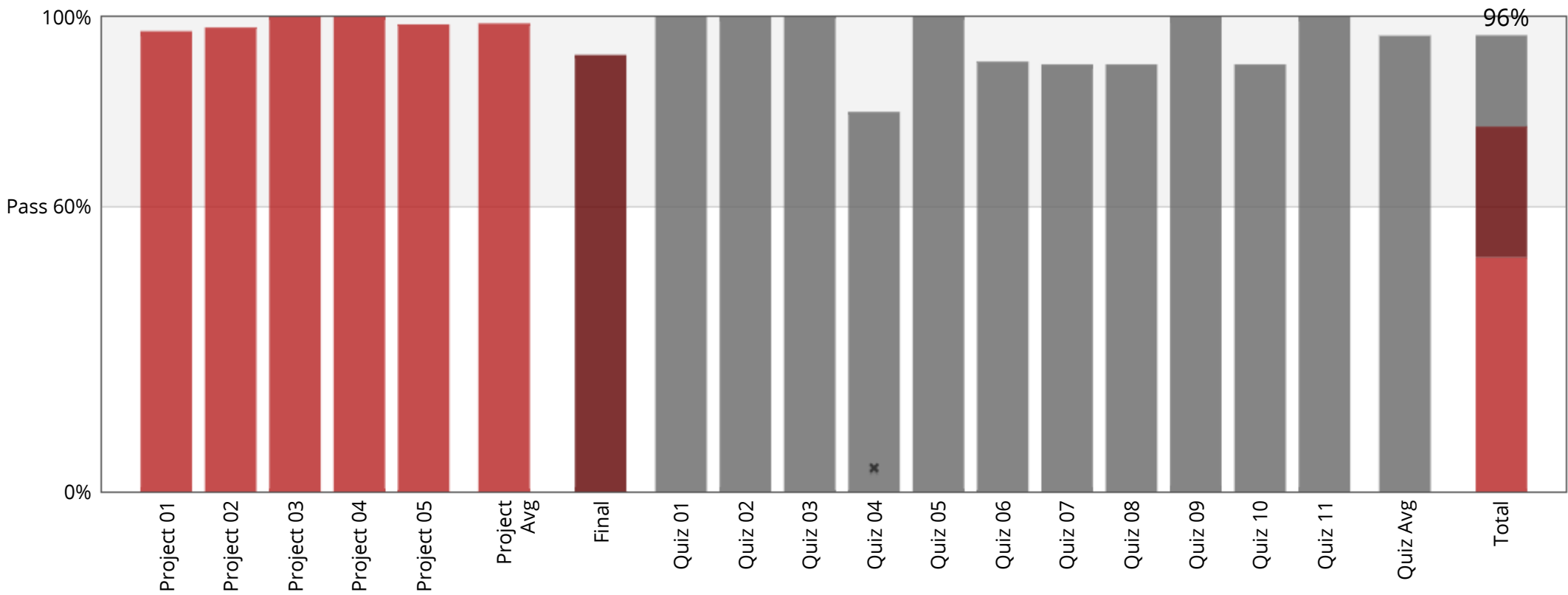
Course Progress for Student 'sandipan_dey' (sandipan.dey@gmail.com)

Your enrollment: Audit track

You are enrolled in the audit track for this course. The audit track does not include a certificate.

Artificial Intelligence Course: Getting Started	**Course Outline**
	No problem scores in this section
	Course Information and Support
	No problem scores in this section
	Pre-Course Survey
	No problem scores in this section

Week 1: Introduction to AI	**Week 1: Suggested Readings**
	No problem scores in this section
	1.1 Overview of AI
	No problem scores in this section
	1.2 Applications of AI
	No problem scores in this section
	1.3 AI Foundation and History
	No problem scores in this section
	1.4 Course Overview
	No problem scores in this section
	Week 1 Quiz: Introduction to AI (100/100) 100%
	Quiz *due Apr 11, 2017 05:00 IST*
	Problem Scores: 100/100
	Week 1 Discussion Questions
	No problem scores in this section

Week 2: Intelligent Agents and Uninformed Search

2.1 Intelligent Agents

No problem scores in this section

2.2 Search Agents

No problem scores in this section

2.3 Uninformed Search

No problem scores in this section

2.4 Uninformed Search Examples

No problem scores in this section

Week 2 Quiz: Uninformed Search (100/100) 100%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10 10/10 10/10 10/10 10/10 10/10 10/10
10/10 20/20

Week 2 Project: Search Algorithms (194/200) 97%

Project *due Apr 11, 2017 05:00 IST*
Problem Scores: 194/200

Week 2 Discussion Questions

No problem scores in this section

Week 3: Heuristic
Search

3.1 Heuristics and Greedy Search Algorithm

No problem scores in this section

3.2 A* Search and Optimality

No problem scores in this section

3.3 Search Algorithms Recap

No problem scores in this section

3.4 Local Search

No problem scores in this section

Week 3 Quiz: Heuristic Search (100/100) 100%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10 10/10 10/10 10/10 10/10 10/10 10/10
10/10 10/10 10/10

Week 3 Discussion Questions

No problem scores in this section

Week 4: Adversarial
Search and Games

Week 4 Suggested Readings

No problem scores in this section

4.1 Adversarial Search and Games

No problem scores in this section

4.2 Minimax algorithm

No problem scores in this section

4.3 Alpha-Beta Pruning

No problem scores in this section

4.4 Stochastic games

No problem scores in this section

Week 4 Quiz: Adversarial Search and Games (80/100) 80%

Quiz *due Apr 10, 2017 05:30 IST*

Problem Scores: 10/10 10/10 0/10 10/10 10/10 10/10 10/10
10/10 0/10 10/10

Week 4 Project: Adversarial Search and Games (196/200) 98%

Project *due Apr 11, 2017 05:00 IST*
Problem Scores: 196/200

Week 4 Discussion Questions

No problem scores in this section

Week 5: Machine Learning 1

Week 5: Suggested Readings

No problem scores in this section

5.1 Machine Learning Concepts

No problem scores in this section

5.2 K-nearest Neighbors and Training-Testing

No problem scores in this section

5.3 Overfitting-Underfitting and Regularization

No problem scores in this section

5.4 Linear Models for Regression

No problem scores in this section

Week 5 Quiz: Machine Learning (100/100) 100%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10

Week 5 Discussion Questions

No problem scores in this section

Week 6: Machine Learning 2

Week 6: Suggested Readings

No problem scores in this section

6.1 Machine Learning: Perceptron

No problem scores in this section

6.2 Logistic Regression

No problem scores in this section

6.3 Decision Trees

No problem scores in this section

6.4 Naive Bayes

No problem scores in this section

6.5 Ensemble Methods

No problem scores in this section

Week 6 Quiz: Machine Learning 2 (96.3/106) 91%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 16.3/16.3 10/10 10/10 10/10 10/10 10/10 0/10 10/10 10/10 10/10

Week 6 Discussion Questions

No problem scores in this section

Week 7: Machine Learning 3

Week 7: Suggested Readings

No problem scores in this section

7.1 Neural Networks

No problem scores in this section

7.2 Clustering

No problem scores in this section

7.3 Association Rules

No problem scores in this section

Week 7 Quiz: Machine Learning 3 (90/100) 90%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10   10/10   10/10   10/10   10/10   10/10   10/10   0/10   10/10   10/10

Week 7 Project: Machine Learning (200/200) 100%

Project *due Apr 11, 2017 05:00 IST*

Problem Scores: 50/50   50/50   100/100

Week 7 Discussion Questions

No problem scores in this section

Practice Proctored Exam (5/5) 100%

due Apr 10, 2017 05:00 IST

Practice Scores: 5/5

Week 8: CSP

Week 8: Suggested Readings

No problem scores in this section

8.1 Constraint Satisfaction Problems

No problem scores in this section

8.2 Cryptarithmetic Puzzle

No problem scores in this section

8.3 Backtracking

No problem scores in this section

8.4 Constraint Propagation

No problem scores in this section

8.5 Problem Structure

No problem scores in this section

Week 8 Quiz: CSP (90/100) 90%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10   10/10   10/10   10/10   10/10   10/10   10/10   0/10   10/10   10/10

Week 8 Discussion Questions

No problem scores in this section

Week 9: Reinforcement Learning

Week 9: Reinforcement Learning Introduction

No problem scores in this section

9.1 Reinforcement Learning Overview

No problem scores in this section

9.2 Markov Decision Process (MDP)

No problem scores in this section

9.3 MDP - Finding Optimal Policy

No problem scores in this section

9.4 Example of an MDP and Bellman Equations

No problem scores in this section

9.5 Value Function - Matrix Notation

No problem scores in this section

9.6 Finding Optimal Policy in MDPs - Iterative Methods

No problem scores in this section

9.7 Policy Iteration Method Example

No problem scores in this section

9.8 Value Iteration Method

No problem scores in this section

9.9 Reinforcement Learning - Algorithms

No problem scores in this section

Week 9 Quiz: Reinforcement Learning (100/100) 100%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10   10/10   10/10   10/10   10/10   10/10   10/10
10/10   10/10   10/10

Week 9 Project: Constraint Satisfaction Problems (200/200) 100%

Project *due Apr 11, 2017 05:00 IST*

Problem Scores: 200/200

Week 9 Optional Project: Reinforcement Learning (not graded)

No problem scores in this section

Week 9 Discussion Questions

No problem scores in this section

Week 10: Logical Agents

Week 10: Suggested Readings

No problem scores in this section

10.1 Knowledge-based Agents

No problem scores in this section

10.2 The Wumpus World

No problem scores in this section

10.3 Logical Agent

No problem scores in this section

10.4 Building Propositions

No problem scores in this section

10.5 Inference Rules

No problem scores in this section

10.6 Reduced Wumpus World

No problem scores in this section

10.7 Model Checking and Inference

No problem scores in this section

10.8 Theorem Proving and Proof by Resolution

No problem scores in this section

10.9 Conversion to CNF and Resolution Algorithm

No problem scores in this section

10.10 Forward and Backward Chaining

No problem scores in this section

10.11 Propositional Logic: summary

No problem scores in this section

10.12 First Order Logic

No problem scores in this section

Week 10 Quiz: Logical Agents (90/100) 90%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10   10/10   10/10   10/10   10/10   10/10   10/10
10/10   10/10   0/10

Week 10 Discussion Questions

No problem scores in this section

Week 11: AI
Applications: NLP

Week 11: Suggested Readings

No problem scores in this section

11.1 AI Applications: NLP

No problem scores in this section

11.2 Text Classification

No problem scores in this section

11.3 Text Classification Example

No problem scores in this section

11.4 Language Models

No problem scores in this section

11.5 Example of Bigrams

No problem scores in this section

11.6 Progress in NLP

No problem scores in this section

Week 11 Quiz: NLP (100/100) 100%

Quiz *due Apr 11, 2017 05:00 IST*

Problem Scores: 10/10 10/10 10/10 10/10 10/10 10/10 10/10
10/10 10/10 10/10

Week 11 Project: NLP (197/200) 98%

Project *due Apr 11, 2017 05:00 IST*

Problem Scores: 197/200

Week 11 Discussion Questions

No problem scores in this section

Week 12: AI
Applications And
Course Review

Week 12: Suggested Readings

No problem scores in this section

12.1 Deep Learning: Background and History

No problem scores in this section

12.2 Deep Learning: Architecture and Application

No problem scores in this section

12.3 Introduction to Robotics

No problem scores in this section

12.4 Robot Path Planning - Visibility Graphs

No problem scores in this section

12.5 Voronoi Graphs and Potential Fields

No problem scores in this section

12.6 Probabilistic Roadmap Planner (PRM)

No problem scores in this section

12.7 Rapidly-Exploring Random Trees (RRT) and Path Planning Summary

No problem scores in this section

12.8 Course Review and Conclusion

No problem scores in this section

Week 12 Discussion Questions

No problem scores in this section

Final Exam Setup

Final Exam (92/100) 92%

Final Exam *due Apr 18, 2017 05:00 IST*

Problem Scores: 4/4 4/4 4/4 4/4 4/4 4/4 4/4 4/4 4/4
4/4 4/4 4/4 4/4 0/4 4/4 0/4 4/4 4/4 4/4
4/4 4/4 4/4 4/4 4/4

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