Microsoft: DAT257x
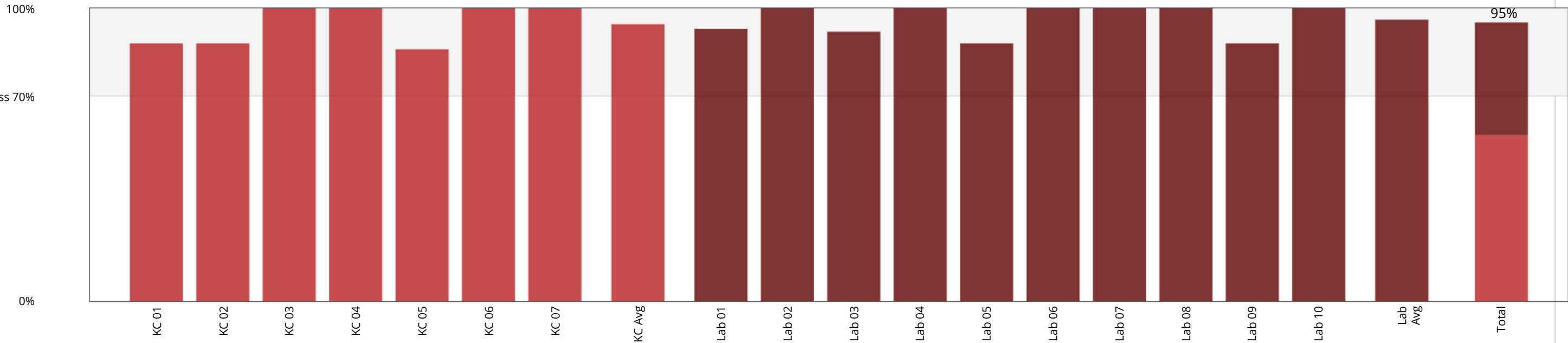**Reinforcement Learning Explained**

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.

Welcome

Introduction
No problem scores in this section

Applications of Reinforcement Learning
No problem scores in this section

Overview of Modules and Labs
No problem scores in this section

Pre-course Survey
No problem scores in this section

Introduction to Reinforcement Learning

What is Reinforcement Learning

No problem scores in this section

Comparisons

No problem scores in this section

Elements of RL

No problem scores in this section

Lab (13/14) 93%

Lab

Problem Scores: 1/1   0/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1

Knowledge Checks (7/8) 88%

Knowledge Check

Problem Scores: 1/1   1/1   1/1   1/1   1/1   1/1   1/1   0/1

Bandits

Bandits Framework

No problem scores in this section

Regret Minimization

No problem scores in this section

Bridge to Reinforcement Learning

No problem scores in this section

Lab (16/16) 100%

Lab

Problem Scores: 1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1

Knowledge Checks (7/8) 88%

Knowledge Check

Problem Scores: 1/1   1/1   0/1   1/1   1/1   1/1   1/1   1/1

The Reinforcement Learning Problem

Agent and Environment Interface

No problem scores in this section

Markov Decision Process

No problem scores in this section

Lab (11/12) 92%

Lab

Problem Scores: 1/1   1/1   1/1   1/1   1/1   1/1   0/1   1/1   1/1   1/1   1/1   1/1

Knowledge Checks (8/8) 100%

Knowledge Check

Problem Scores: 1/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1

Dynamic Programming

Basics of Dynamic Programming

No problem scores in this section

DP Observations

No problem scores in this section

Lab (4/4) 100%

Lab

Problem Scores: 1/1   1/1   1/1   1/1

Knowledge Checks (7/7) 100%

Knowledge Check

Problem Scores: 1/1   1/1   1/1   1/1   1/1   1/1   1/1

Temporal Difference Learning

Policy Evaluation

No problem scores in this section

Policy Optimization

No problem scores in this section

Lab (15/17) 88%

Lab

Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 0/1 0/1 1/1 1/1

Knowledge Checks (6/7) 86%

Knowledge Check

Problem Scores: 1/1 0/1 1/1 1/1 1/1 1/1 1/1

Function Approximation

Why Use Function Approximation

No problem scores in this section

Linear Function Approximation

No problem scores in this section

Lab (3/3) 100%

Lab

Problem Scores: 1/1 1/1 1/1

RL with Deep Neural Networks

No problem scores in this section

Lab (6/6) 100%

Lab

Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1

Extensions to Deep Q-Learning

No problem scores in this section

Knowledge Checks (8/8) 100%

Knowledge Check

Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1

Policy Gradient and Actor Critic

Introduction to Policy Optimization

No problem scores in this section

Likelihood Ratio Methods

No problem scores in this section

Lab (4/4) 100%

Lab

Problem Scores: 1/1   1/1   1/1   1/1

Variance Reduction

No problem scores in this section

Lab (7/8) 88%

Lab

Problem Scores: 0/1   1/1   1/1   1/1   1/1   1/1   1/1   1/1

Actor Critic

No problem scores in this section

Lab (2/2) 100%

Lab

Problem Scores: 1/1   1/1

Knowledge Checks (5/5) 100%

Knowledge Check

Problem Scores: 1/1   1/1   1/1   1/1   1/1

Post-Course Survey

Post-Course Survey

No problem scores in this section