

BDM 1034 - Application Design for Big Data Week12

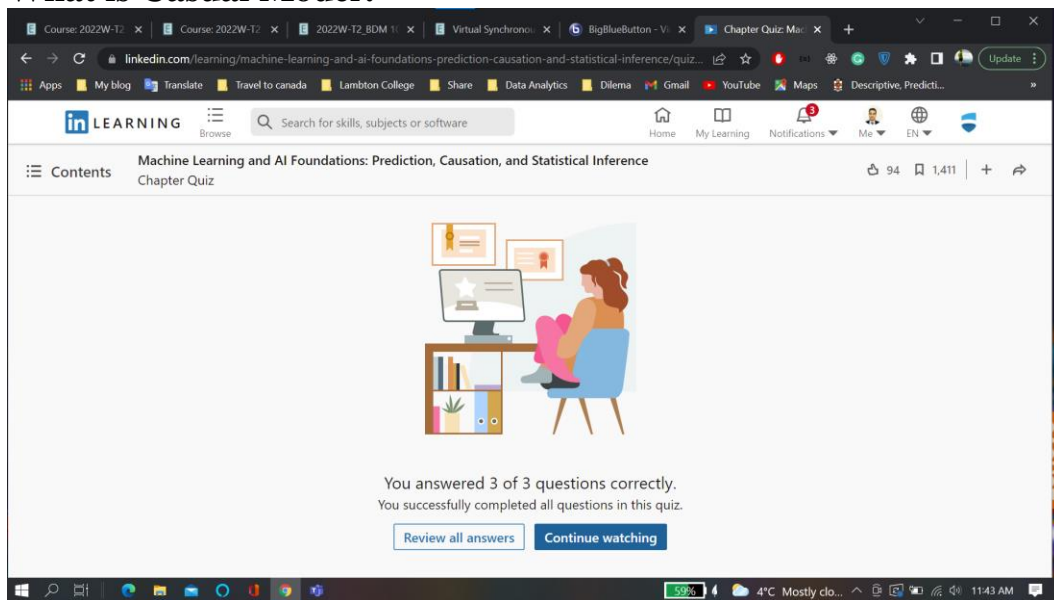
Submitted by: Aadarsha Chapagain

Student ID:C0825975

Submitted to: Prof. Teresa Zhu

Here I have attached the chapter quiz and exercise I have done from LinkedIn learning for Course “**Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference**” along with the Screenshot of score I achieved.

Chapter 1: What is Casual Model?



Chapter 2

Healthy Skepticism about Our Data and our results

The screenshot shows a web browser window with multiple tabs open. The active tab is a LinkedIn Learning quiz titled "Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference Chapter Quiz". The quiz has 94 likes and 1,411 views. The main content area displays an illustration of a person sitting at a desk with a computer, and a message stating: "You answered 3 of 3 questions correctly. You successfully completed all questions in this quiz." Below the message are two buttons: "Review all answers" and "Continue watching". On the left, a sidebar shows the course contents, with the following items listed: Introduction, 1. What is a Casual Model?, 2. Healthy Skepticism about Our Data and Our Results, 3. Correlation Does Not Imply Causation, 4. Prediction and Proof in Statistics, 5. Deduction and Induction, 6. Prediction and Proof in Data Mining, and 7. The Two Cultures: Contrasting Statistics and Data Mining. The browser's address bar shows the URL: linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz... The taskbar at the bottom shows the system time as 11:58 AM and the temperature as 4°C.

Chapter 3:

Corelation doesnot imply causation

The screenshot shows a web browser window with multiple tabs open. The active tab is a LinkedIn Learning quiz titled "Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference Chapter Quiz". The quiz has 94 likes and 1,411 views. The main content area displays an illustration of a person sitting at a desk with a computer, and a message stating: "You answered 3 of 3 questions correctly. You successfully completed all questions in this quiz." Below the message are two buttons: "Review all answers" and "Continue watching". On the left, a sidebar shows the course contents, with the following items listed: Introduction, 1. What is a Casual Model?, 2. Healthy Skepticism about Our Data and Our Results, 3. Correlation Does Not Imply Causation, 4. Prediction and Proof in Statistics, 5. Deduction and Induction, 6. Prediction and Proof in Data Mining, and 7. The Two Cultures: Contrasting Statistics and Data Mining. The browser's address bar shows the URL: linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz... The taskbar at the bottom shows the system time as 2:10 PM and the temperature as 6°C Cloudy.

Chapter 4: Prediction and Proof in statistics

The screenshot shows the LinkedIn Learning platform. The browser tabs include 'Course: 20...', '2022W-T2...', 'Chapter Q...', 'ROUGHCO...', '(29) Tutor...', 'Chapter Q...', and 'LinkedInL...'. The address bar shows the URL: [linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...](https://www.linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...). The LinkedIn Learning header includes a search bar and navigation links: Home, My Learning, Notifications, Me, and EN. The main content area displays the title 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference...' and 'Chapter Quiz'. A sidebar on the left lists the course contents, with 'Chapter Quiz' (4 questions) highlighted. The main area features an illustration of a person at a desk and a message: 'You answered 4 of 4 questions correctly. You successfully completed all questions in this quiz.' Below the message are two buttons: 'Review all answers' and 'Continue watching'. The Windows taskbar at the bottom shows the system clock as 2:47 PM and the temperature as 6°C Cloudy.

Chapter 5: Deduction and Induction

The screenshot shows the LinkedIn Learning platform. The browser tabs include 'Course: 20...', 'Course: 20...', '2022W-T2...', 'Chapter Q...', 'ROUGHCO...', '(29) Tutor...', 'Chapter Q...', and 'LinkedInL...'. The address bar shows the URL: [linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...](https://www.linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...). The LinkedIn Learning header includes a search bar and navigation links: Home, My Learning, Notifications, Me, and EN. The main content area displays the title 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference...' and 'Chapter Quiz'. A sidebar on the left lists the course contents, with 'Chapter Quiz' (5 questions) highlighted. The main area features an illustration of a person at a desk and a message: 'You answered 5 of 5 questions correctly. You successfully completed all questions in this quiz.' Below the message are two buttons: 'Review all answers' and 'Continue watching'. The Windows taskbar at the bottom shows the system clock as 2:48 PM and the temperature as 6°C Cloudy.

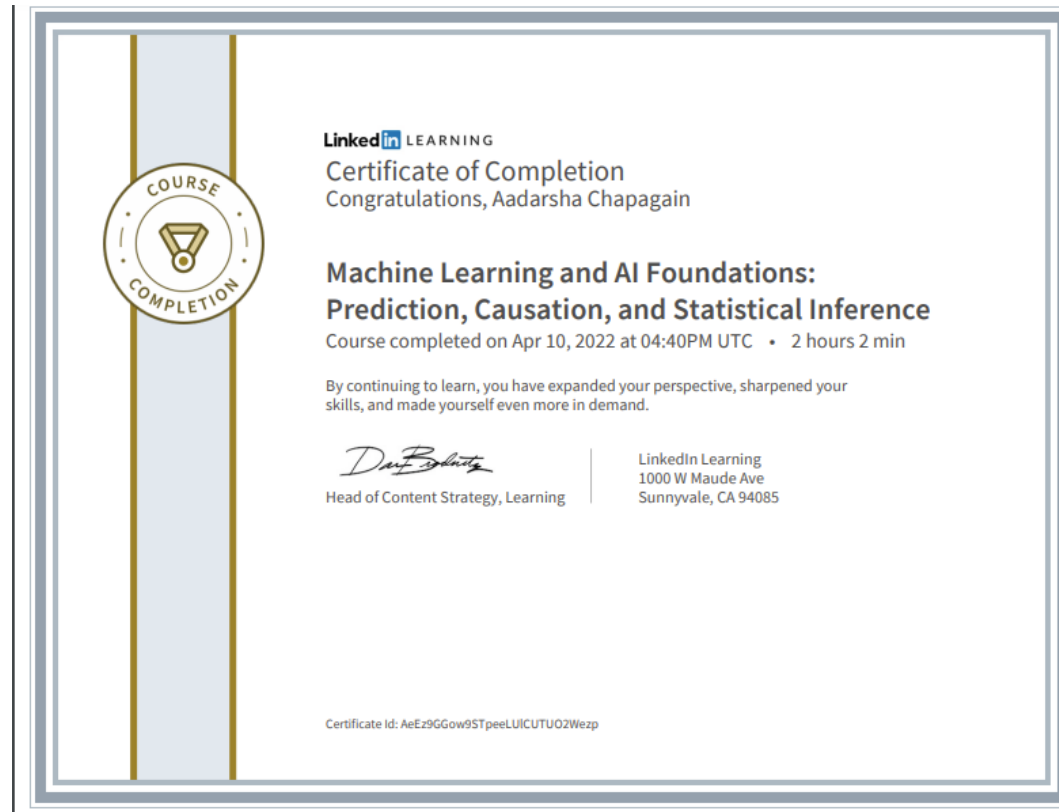
Chapter 6: Prediction and proof in Data Mining:

The screenshot shows the LinkedIn Learning platform. The browser tabs at the top include 'Course: 20...', '2022W-T2', 'Chapter Q...', 'ROUGHCC...', '(29) Tutor...', 'Chapter Q...', and 'LinkedInL...'. The address bar shows the URL: [linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...](https://www.linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...). The LinkedIn Learning header includes a search bar and navigation links: Home, My Learning, Notifications, Me, and EN. The left sidebar shows a 'Contents' menu with the following items: 5. Deduction and Induction, 6. Prediction and Proof in Data Mining (expanded), Data mining vs. data dredging (5m 49s), Train/Test: What can go wrong? (4m 57s), A/B testing during the evaluation phase (2m 45s), Chapter Quiz (3 questions), 7. The Two Cultures: Contrasting Statistics and Data Mining, and Conclusion. The main content area displays the title 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference... Chapter Quiz' with 100 likes and 1,468 bookmarks. Below the title is an illustration of a person sitting at a desk with a computer. The text states: 'You answered 3 of 3 questions correctly. You successfully completed all questions in this quiz.' At the bottom of the main area are two buttons: 'Review all answers' and 'Continue watching'. The Windows taskbar at the bottom shows the time as 2:49 PM and the weather as 6°C Cloudy.

Chapter 7: The two cultures: Contrasting Statistics and Data Mining

The screenshot shows the LinkedIn Learning platform. The browser tabs at the top include 'Course: 20...', 'Course: 20...', '2022W-T2', 'Chapter Q...', 'ROUGHCC...', '(29) Tutor...', 'Chapter Q...', and 'LinkedInL...'. The address bar shows the URL: [linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...](https://www.linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...). The LinkedIn Learning header includes a search bar and navigation links: Home, My Learning, Notifications, Me, and EN. The left sidebar shows a 'Contents' menu with the following items: 6. Prediction and Proof in Data Mining, 7. The Two Cultures: Contrasting Statistics and Data Mining (expanded), The Two Cultures (5m 6s), Explain vs. predict (5m 4s), Comparing CRISP-DM and the scientific method (4m 35s), Applying the two methods at work (4m 11s), Chapter Quiz (4 questions), and Conclusion. The main content area displays the title 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference... Chapter Quiz' with 100 likes and 1,468 bookmarks. Below the title is an illustration of a person sitting at a desk with a computer. The text states: 'You answered 4 of 4 questions correctly. You successfully completed all questions in this quiz.' At the bottom of the main area are two buttons: 'Review all answers' and 'Continue watching'. The Windows taskbar at the bottom shows the time as 2:50 PM and the weather as 6°C Cloudy.

Certificate



BDM 1034 - Application Design for Big Data Week12(Async)

Submitted by: Aadarsha Chapagain

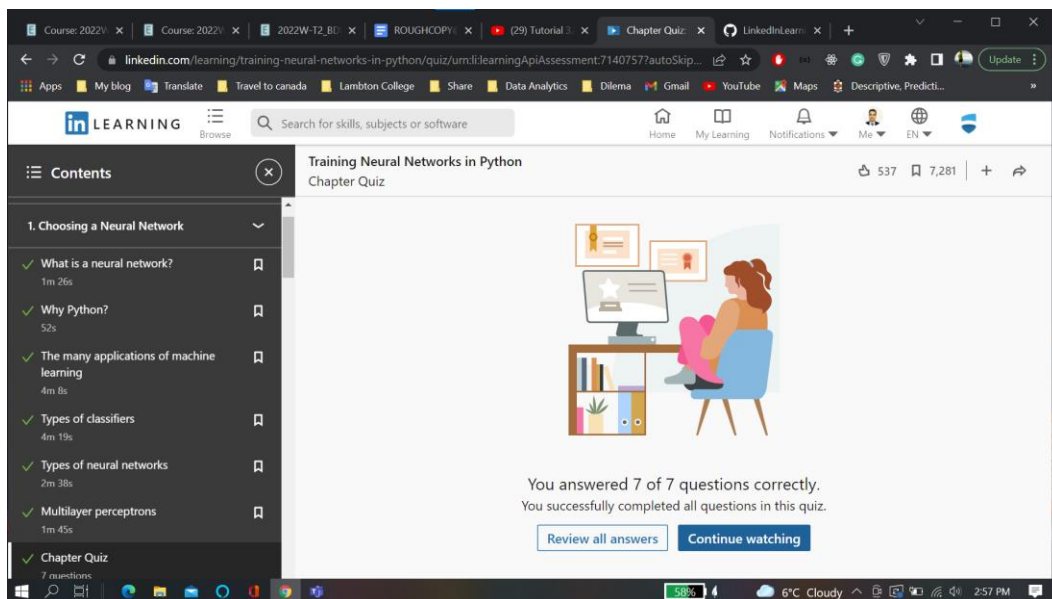
Student ID:C0825975

Submitted to: Prof. Teresa Zhu

Here I have attached the certificate I achieved from LinkedIn learning for Course
“Training Neural Networks in python” along with the demo.

Chapter 1:

Choosing a Neural Network



Chapter 2: The building blocks of Neural Networks

The screenshot shows the LinkedIn Learning platform. The browser tabs include 'Course: 2022W-T2', '2022W-T2_BDM 1', 'ROUGH COPY@20...', 'Chapter Quiz: Train', and 'Neural-Networks'. The address bar shows a URL from linkedin.com. The LinkedIn Learning header includes a search bar and navigation links like Home, My Learning, Notifications, Me, and EN. The left sidebar shows a 'Contents' menu with items like 'Solution: Finish the perceptron', 'Logic gates', 'Challenge: Logic gates with perceptrons', 'Solution: Logic gates with perceptrons', 'Chapter Quiz', '3. Building Your Network', and 'Linear separability'. The main content area is titled 'Training Neural Networks in Python Chapter Quiz' and features an illustration of a person at a desk. Below the illustration, it states 'You answered 7 of 7 questions correctly. You successfully completed all questions in this quiz.' and provides buttons for 'Review all answers' and 'Continue watching'. The Windows taskbar at the bottom shows the time as 4:00 PM and temperature as 7°C.

Chapter 3: Building Your Network

The screenshot shows the LinkedIn Learning platform. The browser tabs include 'Course: 2022W-T2', 'Course: 2022W-T2', '2022W-T2_BDM 1', 'ROUGH COPY@20...', 'Chapter Quiz: Train', and 'Neural-Networks'. The address bar shows a URL from linkedin.com. The LinkedIn Learning header is consistent with the previous screenshot. The left sidebar shows a 'Contents' menu with items like 'Writing the multilayer perceptron class', 'Challenge: Finish the multilayer perceptron class', 'Solution: Finish the multilayer perceptron class', 'Chapter Quiz', '4. Training Your Network', 'The need for training', and 'The training process'. The main content area is titled 'Training Neural Networks in Python Chapter Quiz' and features the same illustration of a person at a desk. Below the illustration, it states 'You answered 2 of 2 questions correctly. You successfully completed all questions in this quiz.' and provides buttons for 'Review all answers' and 'Continue watching'. The Windows taskbar at the bottom shows the time as 4:17 PM and temperature as 7°C.

Chapter 4: Training Your Network

Course: 2022W-T2 x Course: 2022W-T2 x 2022W-T2_BDM 1 x ROUGHCOPY@20 x Chapter Quiz: Train x Neural-Networks x +

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Contents Training Neural Networks in Python Chapter Quiz 537 7,287 +

- ✓ The delta rule 3m 34s
- ✓ The backpropagation algorithm 9m 12s
- ✓ Challenge: Write your own backpropagation method 3m 1s
- ✓ Solution: Write your own backpropagation method 4m 18s
- ✓ Chapter Quiz 10 questions
- 5. Let's Make a Segment Display Classifier
- Conclusion

You answered 10 of 10 questions correctly.
You successfully completed all questions in this quiz.

Review all answers Continue watching

58% WTI -1.82% 10:11 PM

Chapter 5: Let's make a segment display classifier

Course: 2022W-T2 x Course: 2022W-T2 x 2022W-T2_BDM 1 x ROUGHCOPY@20 x Chapter Quiz: Train x Neural-Networks x +

linkedin.com/learning/training-neural-networks-in-python/quiz/urn:li:learningApiAssessment:71407587:autoSkip... Update

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Contents Training Neural Networks in Python Chapter Quiz 537 7,287 +

- 5. Let's Make a Segment Display Classifier
- ✓ Segment display recognition 3m 11s
- ✓ Challenge: Design your own SDR neural network 1m 21s
- ✓ Solution: Design your own SDR neural network 5m 17s
- ✓ Challenge: Train your own SDR neural network 2m 45s
- ✓ Solution: Train your own SDR neural network 6m 25s
- ✓ Chapter Quiz

You answered 2 of 2 questions correctly.
You successfully completed all questions in this quiz.

Review all answers Continue watching

58% CADUSD -0.21% 10:12 PM

Certificate



LinkedIn LEARNING

Certificate of Completion
Congratulations, Aadarsha Chapagain

Training Neural Networks in Python

Course completed on Apr 11, 2022 at 01:57AM UTC • 1 hour 45 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

A handwritten signature in black ink, appearing to read "Dan Bolintz".

Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate id: AcrFADhNI9EpW146yH2zD3clwtFn