

# BDM 1034 - Application Design for Big Data Week12

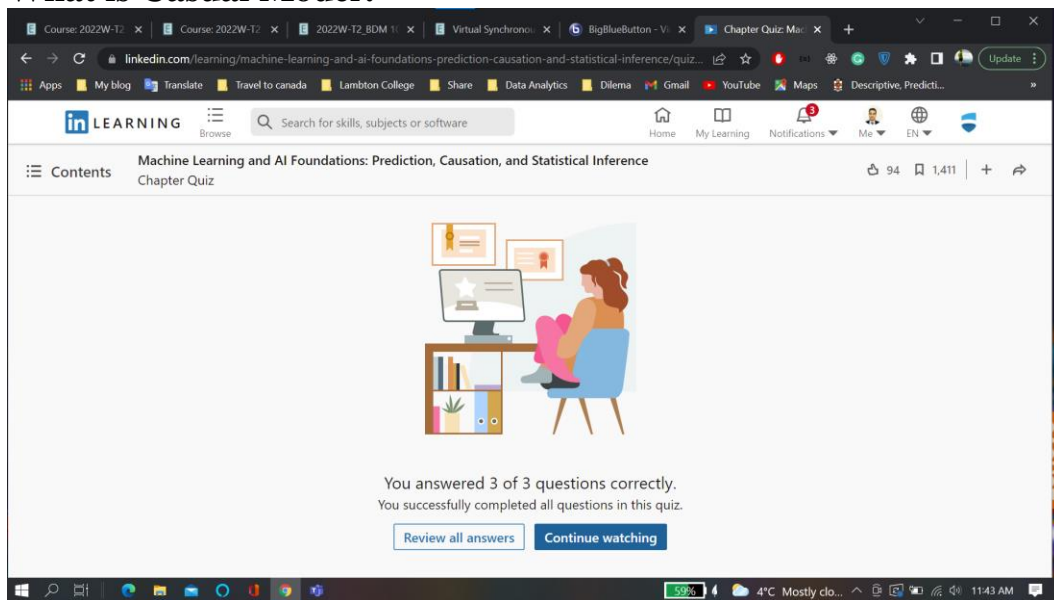
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Here I have attached the chapter quiz and exercise I have done from LinkedIn learning for Course “**Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference**” along with the Screenshot of score I achieved.

## 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 this message are two buttons: "Review all answers" and "Continue watching". On the left, a sidebar menu lists the contents of the chapter, including "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 Windows taskbar at the bottom shows the 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 Infer... 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 this message are two buttons: "Review all answers" and "Continue watching". On the left, a sidebar menu lists the contents of the chapter, including "Introduction", "1. What is a strong correlation?", "2. Pearson on correlation and causation", "3. Correlation and regression", "4. Challenge: What is causing what?", "5. Solution: What is causing what?", and "Chapter Quiz". The browser's address bar shows the URL: "linkedin.com/learning/machine-learning-and-ai-foundations-prediction-causation-and-statistical-inference/quiz...". The Windows taskbar at the bottom shows the 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 at the top 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 is titled 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference... Chapter Quiz'. It features an illustration of a person sitting at a desk with a computer, with a star on the screen. Below the illustration, it says 'You answered 4 of 4 questions correctly. You successfully completed all questions in this quiz.' There are two buttons: 'Review all answers' and 'Continue watching'. On the left, a 'Contents' sidebar lists various topics with checkmarks indicating completion: 'p-value review' (1m 28s), 'Hypothesis testing checklist' (3m 59s), 'Taleb on normality, mediocrity, and extremity' (2m 39s), 'Challenge: Evaluate significant finding' (1m 50s), 'Solution: Evaluate significant finding' (5m 34s), 'Chapter Quiz' (4 questions), '5. Deduction and Induction', and '6. Prediction and Proof in Data Mining'.

## Chapter 5: Deduction and Induction

The screenshot shows the LinkedIn Learning platform. The browser tabs at the top 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 is titled 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference... Chapter Quiz'. It features the same illustration of a person at a desk with a star on the screen. Below the illustration, it says 'You answered 5 of 5 questions correctly. You successfully completed all questions in this quiz.' There are two buttons: 'Review all answers' and 'Continue watching'. On the left, a 'Contents' sidebar lists various topics with checkmarks indicating completion: 'Taleb on induction' (3m 35s), 'Popper on induction and falsification' (4m 32s), 'Taleb on induction' (4m 24s), 'Counterfactuals: Pearl on induction and causality' (2m 24s), 'Chapter Quiz' (5 questions), '6. Prediction and Proof in Data Mining', '7. The Two Cultures: Contrasting Statistics and Data Mining', and 'Conclusion'.

## Chapter 6: Prediction and proof in Data Mining:

The screenshot shows a web browser window displaying a LinkedIn Learning page. The browser's 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 interface includes a top navigation bar with the 'LEARNING' logo, a search bar, and links for Home, My Learning, Notifications, and Me. A left sidebar contains a 'Contents' menu with the following items: 5. Deduction and Induction, 6. Prediction and Proof in Data Mining (selected), 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 is titled 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference... Chapter Quiz'. It features an illustration of a person sitting at a desk with a computer, with a star on the screen. Below the illustration, the text reads: '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 a web browser window displaying a LinkedIn Learning page. The browser's 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 interface is similar to the previous screenshot, with the 'Contents' menu in the left sidebar showing: 6. Prediction and Proof in Data Mining, 7. The Two Cultures: Contrasting Statistics and Data Mining (selected), 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 is titled 'Machine Learning and AI Foundations: Prediction, Causation, and Statistical Inference... Chapter Quiz'. It features the same illustration of a person at a desk. Below the illustration, the text reads: '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

