Х





reviewer4@nptel.iitm.ac.in ~

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Data Science for Engineers (course)

Announcements (announcements) About the Course (https://swayam.gov.in/nd1_noc20_cs28/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 5 - Week 3

Course outline

How does an **NPTEL** online course work?

Week 0

Week 1

Week 2

- Linear Algebra for Data science (unit? unit=14&lesson=15)
- Solving Linear Equations (unit? unit=14&lesson=16)
- Solving Linear Equations (Continued)
 - (unit? unit=14&lesson=17)
- Linear Algebra -

Distance, Hyperplanes

and Halfspaces, Eigenvalues, Eigenvectors

(unit? unit=14&lesson=18)

Linear Algebra -Distance, Hyperplanes

Practice Assignment 3

The due date for submitting this assignment has passed. Due on 2020-02-19, 23:59 IST. As per our records you have not submitted this assignment.

Note: This assignment is only for practice purpose and it will not be counted towards the Final score

1) A and B are two events. The probability that at least one of them occurs is given by

1 point

- $P(A \cap B^c) + P(A^c \cap B)$
- $P(A) + P(B) P(A \cap B)$

 $P(A) + P(B) + P(A \cap B)$

 $P(A^c) + P(B^c) - 2P(A^c \cap B^c)$

No, the answer is incorrect. Score: 0

Accepted Answers:

 $P(A) + P(B) - P(A \cap B)$

2) Two tube lights are installed in a room. Probability of light A failing is 0.20 while the probability 1 point of light B failing is 0.15. What is the

probability that both the lights are working on a given day? (final value is rounded off to 2 decimal

places)

- 0.50
 - 0.54
 - 0.80
 - 0.68

and Halfspaces,Eigenvalues,I (Continued 1) (unit? unit=14&lesson=19)	No, the answer is incorrect. Eigenvectors Accepted Answers: 0.68 3) Given that the random variable X follows a chi-square distribution with 4 degrees of freedom	1 point
 Linear Algebra - Distance, Hyperplanes and Halfspaces, Eigenvalues, I (Continued 2) (unit? unit=14&lesson=20) 	and P(X≤x)=0.5. Then the value of X is 3.357	, pom
 Linear Algebra - Distance, Hyperplanes and Halfspaces, Eigenvalues, I (Continued 3) (unit? unit=14&lesson=21) 	No, the answer is incorrect. Score: 0 Accepted Answers: Eigen Accepted Answers: 4) The possible values of the correlation coefficient lies between: 0 to -1	1 point
FAQ (unit? unit=14&lesson=22) Quiz: Assignment 2 - Part 1 (assessment? name=106)	-1 to 1 -∞ to ∞ 0 to ∞ No, the answer is incorrect. Score: 0 Accepted Answers: -1 to 1	
Quiz: Linear algebra - Assignment 2 - Part 2 (assessment? name=109)	5) 50% of the employees of the ABC corporation are college graduates. Of these, 15% are in sales. Of the employees who did not graduate from college, 70% are in sales. The probability of an employee selected at random is in sales	1 point
Week 2 Feedback (unit? unit=14&lesson=110)	(final value is rounded off to 2 decimal places) 0.50 0.15	
Solution - Assignment 2 - Part 1 (unit? unit=14&lesson=115)	0.430.70	
 Solution - Linear algebra - Assignment 2 - Part 2 (unit? unit=14&lesson=116) 	No, the answer is incorrect. Score: 0 Accepted Answers: 0.43	

Week 3

- Statistical Modelling (unit? unit=24&lesson=25)
- Random
 Variables and
 Probability
 Mass/Density
 Functions (unit?
 unit=24&lesson=26)

Sample Statistics (unit? unit=24&lesson=27)		
O Hypotheses Testing (unit? unit=24&lesson=28)		
FAQ (unit? unit=24&lesson=29)		
Quiz : Practice Assignment 3 (assessment? name=92)		
Quiz : Assignment 3 (assessment? name=111)		
Week 3 Feedback (unit? unit=24&lesson=112)		
Solution - Assignment 3 (unit? unit=24&lesson=120)		
Week 4		
Week 5		
Week 6		
Week 7		
Week 8		
Text Transcripts		
Download Videos		