Progress

Mentor

Unit 3 - Week 1

Text Transcripts

Course outline Assignment 1 How to access the portal? The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Week 0 Which of the following is a supervised learning problem? Week 1 Predicting the outcome of a cricket match as win or loss based on historical data. Introduction to Machine Learning Predicting the gender of a person from his/her image. You are given the data of 1 Million images along the gender Supervised Learning politics, technology, etc Unsupervised Learning No, the answer is incorrect. Reinforcement Learning Score: 0 Accepted Answers: Statistical Decision Theory -Predicting the outcome of a cricket match as win or loss based on historical data. Regression Recommending a movie to an exisiting user on a website like IMdB based on the search history (including Statistical Decision Theory -Classification Predicting the gender of a person from his/her image. You are given the data of 1 Million images along the gender Bias - Variance Given the class labels of old news articles, predicting the class of a new news article from its content. Class Week 1 Feedback of a news article can be such as sports, politics, technology, etc Quiz : Assignment 1 2) Which of the following are classification problems? Assignment 1 solutions Predicting if a cricket player is a batsman or bowler given his playing records. Week 2 Finding the shorter route between two existing routes between two points. Predicting if a particular route between two points has traffic jam or not based on the travel time of vehicles Week 3 No, the answer is incorrect. Score: 0 Week 4 Accepted Answers: Predicting if a cricket player is a batsman or bowler given his playing records. Week 5 Predicting if a particular route between two points has traffic jam or not based on the travel time of vehicles Week 6 3) Which of the following is a regression task? Week 7 Predicting the monthly sales of a cloth store in rupees. Predicting if a user would like to listen to a newly released song or not based on historical data. Week 8 Predicting if a patient has diabetes or not based on historical medical records. Week 9 No, the answer is incorrect. Score: 0 Week 10 Accepted Answers: Predicting the monthly sales of a cloth store in rupees. Week 11 Predicting the confirmation probability (in fraction) of your train ticket whose current status is waiting list based on historical data Week 12 4) Which of the following is an unsupervised task? DOWNLOAD VIDEOS

Due on 2019-08-14, 23:59 IST. 1 point Recommending a movie to an exisiting user on a website like IMdB based on the search history (including other users) Given the class labels of old news articles, predicting the class of a new news article from its content. Class of a news article can be such as sports, 1 point Predicting the temperature (in Celsius) of a room from other environmental features (such as atmospheric pressure, humidity etc) 1 point Predicting the confirmation probability (in fraction) of your train ticket whose current status is waiting list based on historical data 1 point Grouping images of footwear and caps separately for a given set of images Learning to play chess Predicting if an edible item is sweet or spicy based on the information of the ingredients and their quantities. all of the above No, the answer is incorrect. Score: 0 Accepted Answers: Grouping images of footwear and caps separately for a given set of images 5) Which of the following is a categorical feature? 1 point Number of legs of an animal Number of hours you study in a day Branch of an engineering student Your weekly expenditure in rupees. No, the answer is incorrect. Score: 0 Accepted Answers: Branch of an engineering student 6) Let X and Y be a uniformly distributed random variable over the interval [0,4] and [0,3] respectively. If X and Y are independent events, then compute 1 point the probability, $\mathbb{P}(max(X, Y) > 2)$ <u>5</u> None of the above No, the answer is incorrect. Score: 0 Accepted Answers: $\begin{bmatrix} a & b \\ . \end{bmatrix}$ be 4 and 3 respectively. The eigenvalues of **A** are 1 point Let the trace and determinant of a matrix

 $\frac{3+\sqrt{7}\imath}{2}$, $\frac{3+\sqrt{7}\imath}{2}$,where $\imath=\sqrt{-1}$ \bigcirc 1,3 None of the above Can not be computed as the entries of the matrix A are not given No, the answer is incorrect. Score: 0 Accepted Answers: 8) What would be the ideal complexity of the curve which can be used for polynomial curve fitting for the data shown below. (y-axis denotes the 1 point dependent variable)



