Internship Assessment Part 1 - MCQ (**LIVE NOW**)

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* Required

Quiz

If 'Z' is a uniform random variable distributed over [0, 10], calculate the probability that 'Z' < 3 * 2 points

- ○ 1/10
- ○ 2/10
- ◉ 3/10
- ○ 4/10

Which of the following vectors are orthogonal: (Choose all the correct options) * 3 points

- ☑ a = (6,2,-1), b = (2,-7,-2)
- ☑ a = (5,2,-2), b = (2,-7,-2)
- ☑ a = (4,-8), b = (-4,-2)
- ☐ a = (1,2,-1), b = (2,-3,-2)

Which of the following is an invalid identifier? * 2 points

- [ ] My_str_1
- [x] 1st_str
- [ ] Foo
- [ ] __

In Python, what is the maximum possible length of an identifier? * 2 points

- [ ] 63 Character
- [ ] 31 Character
- [x] 79 Character
- [ ] None of the above

In Domino's, an average of 3 out of 5 customers ask for ketchup with their Pizza. Assume a random sample of 10 customers is selected. Find the probability that exactly 6 customers ask for ketchup with their Pizza. * 2 points

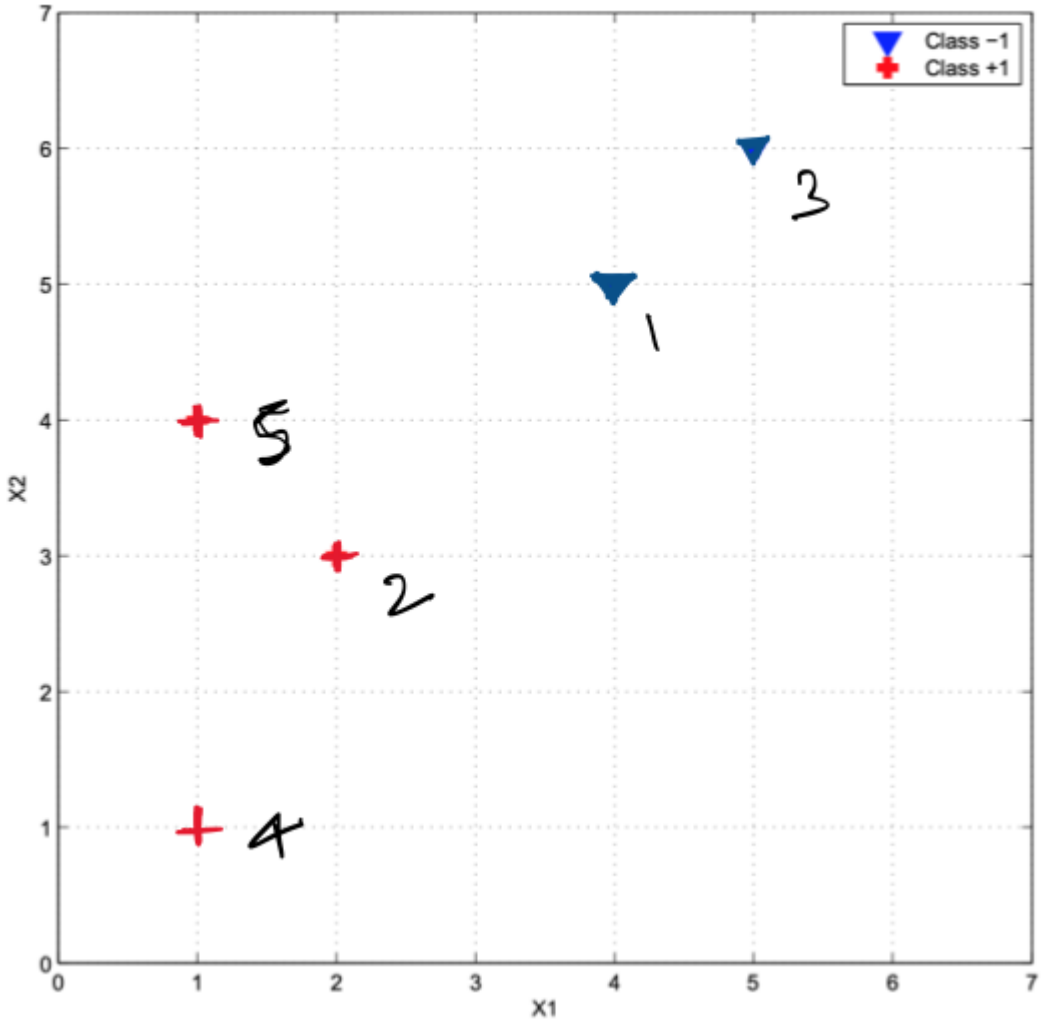
- [ ] 0.20
- [ ] 0.35
- [ ] 0.30
- [x] 0.25

What are the differences of using squared difference over absolute difference for variance? (Choose all the correct options) * 3 points

- [x] Square function is continuous and differentiable everywhere.
- [ ] Square retains the arithmetic signs after computing.
- [ ] Square removes the effects of outliers in the data.
- [ ] Square magnifies the outliers in the data.

Select the support vectors in the figure below when training an SVM. There are two classes and each sample is marked with an id.

* 5 points



- [ ] 2,5,1,3
- [ ] 1,2
- [ ] 4,3
- [x] 1,2,5

In Python, which of the following is invalid statement? * 2 points

- ○ Abc = 100,000,000
- ○ A,b,c = 100,200,300
- ◉ A b c = 100 200 300
- ○ A_b_c = 100,000,000

Given the dataset below. Lets say the goal is to predict the food review based on its smell, taste and portion size. Lets assume that you want to create a Decision Tree Model. What is the information gain with respect to 'Taste' i.e. Compute Information_Gain(Review, Taste)? * 5 points

Review	Smell	Taste	Portion
Negative	Woody	Sweet	Small
Negative	Fruity	Salty	Large
Negative	Fruity	Salty	Large
Positive	Fruity	Sour	Small
Positive	Woody	Sour	Small
Negative	Woody	Sweet	Large
Positive	Woody	Sour	Large
Positive	Fruity	Salty	Small
Positive	Fruity	Salty	Small
Negative	Woody	Sweet	Large

- ○ 0.5
- ○ 1
- ○ 0
- ◉ 0.6

Calculate the dot product and angle between c = (−8, −6) and d = (−4, 5)? * 2 points

- ○ dot product = -2, acute angle
- ○ dot product = 2, obtuse angle
- ◉ dot product = 2, acute angle
- ○ dot product = -2, obtuse angle

There are 52 cards in a deck (not including Jokers). find out probability of getting a even number on card given that card is of red color.(Note:- only assume Numbered cards ie 2 to 10.) * 2 points

- ○ 5/52
- ○ 10/26
- ○ 6/52
- ◉ 5/26

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