Write the set (1,2,3) as a row vector and a column vector.
These vectors are of each other.
What is an instance in ML?
What is a prediction in ML?
What is a target variable in ML?
We use to optimize an ML classifier. This is also referred to as because the predicted values of the target variables are known.
The known values of these target variables are also referred to as
Each type of data we have about an instance is called a and we use these to base determine the predicted value for an instance.
We are observing dice rolls. Roll R can be any number from the set (1,2,3,4,5,6). The variable R is considered a
What are distance and similarity in ML?
When a website recommends you a product based off of your purchase history, this is referred to as
The process of picking the recommended product or products is referred to as What are the two versions of this process?

If a matrix contains mostly zeros, it is referred to as a
In the problem 2^n = 16, n could be referred to as the or
In that same problem, 2 would be referred to as the
What is the difference between supervised and unsupervised machine learning?
Define the ML terms class, classifier, and classification.
is the probability that two events, A and B, both occur and is denoted by
The probability of these two events occurring at the same time might be if there joint occurrence is related, otherwise the two events might be
A collection of large texts (or documents) is known as a A unit of text within one of these documents is known as a
When analyzing text, we often omit words such as 'the' or 'and' because they do not contain useful information. We refer to these words as
When analyzing text, we often want to condense different tenses of a word (ex. 'run', 'runs', and 'running') into a single feature. To do this, we use a process called
One problem you might encounter when training a ML classifier is when a floating point calculation returns an extremely small number. This problem is referred to as
A variable in a ML model that is set before the model is trained is known as a
What is the difference between a positive and negative instance in ML?

Define the ML terms true positive, true negative, false positive, and false negative.

Write the formula for accuracy using the variables TP, TN, FP, FN to represent the terms in the previous question. What is accuracy in simple terms?					
In order to determine which model best represents a set of data, we must determine the model's					
What is the formula for sample standard deviation?					
What does ddof stand for?					
What is the difference between sample and population standard deviation?					
The variable used to represent a model is, the variable used to represent a vector of labels is, and the variable used to represent a vector of target variables is					
Use the variables mentioned above to write the formula for finding residuals.					
What do SSE, MSE, and RMSE stand for? What are they used for when fitting a line/curve to some data?					
Y = ax + b is a function for a regression, while y = ax^2 + bx + c is a function for a regression. What does OLS stand for?					

are simply caused by natur	ta, tne w al variability, and that there		ity in the trends in the dat
tells us wh	ether the probability of a sta her words, that the calculati	atistic would be as or m	
tells us w	hether there is a correlation	between two variables	s in a set of data.
	ure of goodness of fit that, i riables that is explained by t	•	presents the percent of
A function or functions tha	t describes some data is refe	erred to as a	·
is the task	of finding the best solution	from a set of possible s	olutions.
In ML, the task of finding th	e smallest distance betwee	n a model and a sample	e is known as

Observe the following functions and label them with the name of the value that they calculate:

$$P(A \mid B) = \frac{P(A \cap B)}{P(B)}$$

$$|A| = \begin{vmatrix} a & b & c \\ d & e & f \\ g & h & i \end{vmatrix} = a \begin{vmatrix} \Box & \Box & \Box \\ \Box & e & f \\ \Box & h & i \end{vmatrix} - b \begin{vmatrix} \Box & \Box \\ d & \Box & f \\ g & \Box & i \end{vmatrix} + c \begin{vmatrix} d & e \\ g & h \end{vmatrix}$$

$$= a \begin{vmatrix} e & f \\ h & i \end{vmatrix} - b \begin{vmatrix} d & f \\ g & i \end{vmatrix} + c \begin{vmatrix} d & e \\ g & h \end{vmatrix}$$

$$= aei + bfg + cdh - ceg - bdi - afh.$$

$$\sum_{i=1}^{n} \frac{a_{i}b_{i}}{a_{i}b_{i}} = \frac{a_{1}b_{1} + a_{2}b_{2} + \cdots + a_{n}b_{n}}{a_{n}b_{n}}$$

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix}^{-1} = \frac{1}{\det \mathbf{A}} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix}$$

$$\sqrt{rac{\sum_{t=1}^T (\hat{y}_t - y_t)^2}{T}}.$$

$$\sqrt{\sum_{i} (v_i - 0_i)^2} = \sqrt{\sum_{i} v_i^2}$$

$$\boldsymbol{u} \cdot \boldsymbol{v} = \|\boldsymbol{u}\| \|\boldsymbol{v}\| \cos \theta$$

a[i][j] == a[j][i] _____

For that last function, what do ||u|| and ||v|| represent?

For the following sets of conditions, identify the special matrix they are describing:

N = m _______

a[i][j] == 0 and i != j ______

a[i][j] == 0 and i > j ______

a[i][j] == 0 and i < j ______

(a[i][j] == 0 and i != j) and (a[i][j] == 1 and i == j) ______