

Quiz - Supervised and Unsupervised Learning

Forfall Ingen forfallsdato**Poeng** 7**Spørsmål** 7**Tidsbegrensning** Ingen**Tillatte forsøk** Ubegrenset[Ta quizen på nytt](#)

Forsøkshistorikk

	Forsøk	Tid	Resultat
GJELDENDE	Forsøk 2	1 minutt	7 av 7
SISTE	Forsøk 2	1 minutt	7 av 7
	Forsøk 1	4 minutter	5 av 7

Resultat for dette forsøket: **7** av 7

Innlevert 7. sep. i 10.37

Dette forsøket tok 1 minutt

Spørsmål 1

1 / 1 poeng

Which one of the statements below is correct?

Riktig!

In supervised learning, the dataset consists of input variables X and output variables Y.



In unsupervised learning, the goal is to obtain a mapping function.



Classification and regression are common tasks in unsupervised learning.



None.

Spørsmål 2**1 / 1 poeng**

In supervised learning, in order to develop a reliable model, we pay attention to:

- ☐ The model complexity
- ☐ The distribution of model's predictions
- ☐ The model accuracy
- ☒ All the above

Riktig!**Spørsmål 3****1 / 1 poeng**

We trained our model to solve a classification task. As we look at the model's performance, we notice that it performs poorly on both training and test datasets. What is the problem?

- ☐ The model is overfitting
- ☒ The model is suffering from high bias problem
- ☐ The model is underfitting
- ☐ The model is suffering from high variance problem

Riktig!**Spørsmål 4****1 / 1 poeng**

K-nearest neighbors is algorithm that can be used to predict the or values.

☐ Unsupervised learning, group, continuous

☐ Unsupervised learning, class, discrete

☒ Supervised learning, class, continuous

☐ Supervised learning, group, discrete

Riktig!

Spørsmål 5

1 / 1 poeng

In k-nearest neighbors, what happens when we increase the K value?

☐ The boundaries become rough

☒ The boundaries become smoother

☐ The algorithm classifies all data points in one class

☐ It will not affect the overall result

Riktig!

Spørsmål 6

1 / 1 poeng

Which of the following statements are True?

A. In a dataset with multi features, each column is a feature vector

B. K-means is a lazy, non-parametric algorithm

C. The centroid in K-means algorithm remains same during the learning process

D. The K value in both KNN and K-means algorithms is the number of classes.

☐ A and C

☐ D

☐ B

☒ None the above

Riktig!

Spørsmål 7

1 / 1 poeng

Which of the following distance measure can we use in K-means algorithm?

- A. Hamming distance
- B. Euclidean distance
- C. Manhattan distance

☐ A

☐ A and B

☐ C and B

☒ All the above

Riktig!

Quizresultat: 7 av 7