ML Review Quiz: Big Recap

* Required

| 3 main types of learning | | ad by maab | ina laarning alg | orithmo: |
|---|-----------------------------|------------|------------------|-------------|
| You were introduced to 3 differe unsupervised learning, supervis learning to one of the goals belo | ed learning, and reinforcem | | | |
| Mark only one oval per row. | | | | |
| | unsu | pervised | supervised | reinforceme |
| Learn how to optimally beh environment | nave in your | | | |
| Discover patterns in your d | lata | | | |
| | | | | |
| Predict Y from X The main ML types also Imatch each subcategory to its | • | * | | 51 |
| The main ML types also I | • | * | | 51 |
| The main ML types also l | • | | ised Learning | 5 (|
| The main ML types also l | s main learning type. | | ised Learning | 51 |
| The main ML types also I match each subcategory to its Mark only one oval per row. | s main learning type. | | ised Learning | 51 |
| The main ML types also Imatch each subcategory to its Mark only one oval per row. Dimensionality Reduction | s main learning type. | | ised Learning | 51 |
| The main ML types also Imatch each subcategory to its Mark only one oval per row. Dimensionality Reduction Clustering | s main learning type. | | ised Learning | 51 |

Mark only one oval per row.

| Dimensionality Reduction | Anomaly Detection | Clustering | Features- based Supervised Learning Models | Similarity- based Supervised Learning Models |
|-----------------------------|----------------------|------------|--|---|
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| | | | I IIIQTATINA | Dimensionality Anomaly Reduction Detection Clustering Supervised Learning |

| 4. | Data vs. Concept Drift * | | | 2 points |
|----|--|------------------|----------------------------|-------------------|
| | In this task we want to predict the price of a house fr in either a data or a concept drift? Remember: Data D Concept Drift is when the input/output relation change | rift is when the | | |
| | Mark only one oval per row. | | | |
| | | Data Drift | Concept Drift | |
| | Due to inflation, the same size house now costs 20% more than 5 years ago. | | | |
| | On average, people built larger houses in 2020 than in 2010. | | | |
| 5. | Over- and Underfitting * A model's performance on new data points can be bathas a high bias) or overfitting (= high variance). Which wark only one oval per row. | | ons: underfitting (= the n | 2 points nodel |
| | | underfitting | g overfitting | |
| | When you evaluate the model on the data it was trained on, the performance is close to that of a human, but on new data points it performs poorly. | | | |
| | No matter on what data (train or test) you evaluate the model, the performance is always far below that of a human. | | | |

2 points

| | underfitting | overfitting | | |
|---|-------------------------------|--------------|------------|---|
| try a more complex (non-linear) model | | | _ | |
| feature engineering | | | _ | |
| use regularization | | | _ | |
| get more data (samples) | | | _ | |
| feature selection | | | _ | |
| Machine learning is an "iterative" pronas to try many ideas before arriving ther than have the first thing they mark only one oval. | g at a solutio | • | | n |
| nas to try many ideas before arriving tather than have the first thing they Mark only one oval. | g at a solutio | • | | n |
| nas to try many ideas before arriving they rather than have the first thing they Mark only one oval. True | g at a solutic try work. * | on that's go | od enough, | n |
| nas to try many ideas before arriving tather than have the first thing they Mark only one oval. True False Which of these are reasons that it's | g at a solutic try work. * | on that's go | od enough, | n |
| nas to try many ideas before arriving rather than have the first thing they Mark only one oval. True False Which of these are reasons that it's system to be 100% accurate? * | g at a solutic try work. * | on that's go | od enough, | n |
| nas to try many ideas before arriving rather than have the first thing they wark only one oval. True False Which of these are reasons that it's system to be 100% accurate? * Wark only one oval. | g at a solutic try work. * | on that's go | od enough, | n |