

ML Review Quiz: Problem/Solution

* Required

1. Unsupervised Learning *

5 points

Select one ML solution category for each problem

Mark only one oval per row.

	Dimensionality Reduction	Clustering	Anomaly Detection
create a visualisation of your data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
customer segmentation for targeted marketing campaigns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
group free text error logs into frequently occurring topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
detect when a machine starts to act strangely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
monitor a patient's heart rate to detect problems before more severe symptoms occur	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. Supervised Learning *

5 points

Select one ML solution category for each problem

Mark only one oval per row.

	Regression	Classification
demand forecast: predict how much inventory will be sold in the future	<input type="radio"/>	<input type="radio"/>
predict how much a customer will spend so you can market only to high-yield customers	<input type="radio"/>	<input type="radio"/>
e-mail spam filter	<input type="radio"/>	<input type="radio"/>
determine in which section of a news paper an article should appear	<input type="radio"/>	<input type="radio"/>
personalised treatment: based on the medical history, predict to which of 3 treatment options a patient might respond best	<input type="radio"/>	<input type="radio"/>

3. Other *

3 points

Select one ML solution category for each problem

Mark only one oval per row.

	Reinforcement Learning	Recommender Systems	Information Retrieval
optimally move a robot arm to grasp an object in different situations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
identify items that a user might be interested in based on his/her purchase history	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
find relevant documents given a search query	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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