Supervised Learning

Supervised Machine Learning 4.1 At its core, supervised machine learning means _____ Predictive models are based on ______ and are evaluated _____ _. Then, they are used to ______. While correct class labels are known for training data, supervised learning is applied to ______ Clustering and Classification can be used together by _____ 4.2 **Classifiers** Decision trees are not suitable for tasks with a high number of features because _____ When an image is processed by a neural network, each _______. The k variable of the k-nearest neighbors algorithm defines _____ 4.3 **Training and Testing** Validation sets are used to prevent overfitting by _____ Besides determining whether a user is human, CAPTCHAs can be used to

Using only perfectly shot photos of zebras in profile to detect zebras in images can lead to overfitting because ___

Validation data should only be used once to avoid ______

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4.4 Evaluating Models

In a confusion matrix, true positive (TP) means that	
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Trust in a model can be achieved by	
Bagging, boosting and stacking are ways of	