## ML4SecQuiz#1-MLBasics-31stJan2023

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ML4SecQuiz#1-MLBasics-31stJan2023		
As mentioned earlier in Sec 1		
The false positives (or even the false negatives ) predicted by the model		
depend both on the quality and the quantity of the data supplied during the training		
<ul><li>does not depend on either quality or quantity of data data supplied during training</li><li>depend on the quality of the data supplied during the training</li></ul>		
Model performance depend on how the dataset are splitted in the model building.		
is irrelevant		
Odoes		
O does not		

!

trans	saction is a fraudulent or not - each is an application of the ML task		
	, that is closely related to		
0	Class probability estimation, classification		
0	Clustering, classification		
0	Class probability estimation, clustering		
0	Class probability estimation, Association Rule Mining		
0	Other:		
use	imitates our own ability to extract patterns from known examples and that extracted insight to engineer a repeatable outcome.		
0	Reinforcement learning		
0	Unsupervised learning		
0	none of these options		
0	Supervised learning		
ched	refers to the critical process of performing <b>initial investigations</b> ata so as to discover patterns,to spot anomalies,to test hypothesis and to ck assumptions with the help of summary statistics and graphical esentations.		
0	Feature Engineering		
	Exploratory Data Analysis		
0			
0	Model Training		

SVM is an example of a learning algorithm that uses the to		
create a model that has parameters learned by the data.		
instance based, training data, whole dataset		
model based, training data, training data		
instance based, whole dataset, training data		
model based, whole dataset, training data		
Though based, whole dataset, training data		
A		
A computer program is said to learn from experience <b>E</b> with respect to some task <b>T</b>		
and some performance measure P if its performance on T, as measured by P,		
improves with experience <b>E.</b> Suppose we feed a learning algorithm a lot of		
historical weather. data, and have it learn to predict weather. Then, a reasonable		
choice for P would be		
The probability of it correctly predicting a future date's weather.		
The process of the algorithm examining a large amount of historical weather data.		
The weather prediction task.		
None of these.		
Notice of these.		
the state of the s		
is an application of ML algorithms, where, the system is		
capable of capturing sudden changes, which can be used as an alert mechanism		
to provide immediate communication about an impending disaster.		
Anomaly detection, Unsupervised		
Anomaly detection, Supervised		
Association Rule Mining, Supervised		
Signature-based detection, Un-supervised		
Orginature based detection, orresupervised		

is an application of ML in which the raw data are identified one or more meaningful and informative labels are attached to provide context so that an ML model can learn from it.			
Smart Data Labelling, Supervisory ML-based			
Ethical credit scoring system, Supervisory ML-based			
Smart Data Labelling, Un-Supervisory ML-based			
Ethical credit scoring system, Un-Supervisory ML-based			
Consider that in an application data was collected for an ML algorithm. This data was for example of the kind as follows: Input could be anything, for example, email messages, pictures, or sensor measurements. Outputs were supposed to be usually real numbers, or labels (e.g. "spam", "not_spam", "cat", "dog", "mouse", etc). In some cases, outputs are vectors (e.g., four coordinates of the rectangle around a person on the picture), sequences (e.g. ["adjective", "adjective", "noun"] for the input "big beautiful car"), or have some other structure. Then the ML algorithm must be			
O Decision Tree			
Principle Component Analysis			
○ KNN			
Basic Apriori algorithm.			

emphasizes the incremental process of self-learning and automatically detecting patterns through experience derived from exposure to data, whereas, is a less autonomous technique of extracting hidden insight.			
Machine Learning, Artificial Intelligence			
O Supervised ML, Unsupervised ML			
Machine Learning, Data Mining			
O Data Mining, Machine Learning,			
is an application of ML algorithm.			
Partitioning of a set of objects into distinct similar groups, DBSCAN			
Partitioning of a set of objects into distinct similar groups, SVM			
O Detecting an email to be spam/ham, DBSCAN			
O Detecting an email to be spam/ham, KMeans			
Other:			
A is a property of a learning algorithm, usually (but not always) having a numerical value - which influences the way the algorithm works. These are not learned by the algorithm itself from data - but have to be set by the data analyst before running the algorithm.  Ohyperparameter  testing data parameter none of these			

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In ML, the output of the decision model is determined by			
the contents of the input data rather than any pre-set rules defined by a human programmer.			
O none of these			
the pre-set rules defined by a human programmer, rather than any contents of the input data			
Other:			
Normally, there is a split of for training and for testing dataset.			
40%, 60%			
50%, 50%			
80%, 20%			
20%, 80%			
spans various subfields that include search and planning, reasoning and knowledge representation, perception, natural language processing (NLP), and of course			
Al, machine learning			
Al, Computer Science			
Machine learning, AI			
O AI, AI			

Predicting how much a used car would sell for given historical data on recent used car sales in the area is an example of ML task			
Classification			
Clustering			
regression			
oprincipal component analysis			
Helping with when one is looking for a particular product online but couldn't find it through traditional search methods OR similarity matching to present present other relevant products are examples of and could use algorithm			
Classification, SVM			
Regression, LASSO/Ridge			
Similarity Matching, KNN			
Clustering, KMeans			
Comparable to how the Industrial Revolution gave birth to an era of machines simulating physical tasks, AI is driving the development of machines			

In traditional computer programming, outputs or decisions are, whereas machine learning (also) as input to build a decision model.				
uses data, uses data				
pre-defined by the programmer, pre-defined by the programmer,				
pre-defined by the programmer, uses data				
uses data, pre-defined by the programmer,				
Whereas focuses on analyzing input variables to predict a new output, extends to analyzing both input and output variables.				
data mining, machine learning				
machine learning, data mining				
adopt(s) a Bayesian approach to knowledge discovery, using probabilities of previously observed events to infer the probabilities of new events.				
Artificial Neural Network (ANN)				
Support Vector Machine (SVM)				
O Decision trees.				
C Linear and Logistic Regression				
All of the above				

Finding the relation between the weight of the person and his/her height is an example of regression whereas determine the impact of gold prices, prices of crude oil etc on the inflation OR the analysis in sectors like insurance, agriculture, finance, investing are examples of regression.			
onon-linear, non-linear			
onon-linear, linear			
O linear, linear			
O linear, non-linear			
is an example of an ML algorithm that uses of the elements in a cluster as the prototype of the cluster; to determine which cluster an element belongs to.  Color K Means, prototype based clustering  Color Gaussian Mixture Model, Hierarchical Clustering  Color BIRCH, Density-based Clustering.  Color BIRCH, Density-based Clustering.			
is an example of Probability density and mass function estimation problems and use ML algorithm.			
Market Basket Analysis, DBSCAN			
Email Spam Detection, SVM			
Malware detection, BIRCH			

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during training, infuses new data into the model that it hasn't evaluated before and provides the first test against data, allowing data scientists to evaluate how well the model makes predictions based on the new data.			
0	Testing dataset, unseen		
0	Validation dataset, unseen		
0	Validation dataset, seen		
0	Training dataset, unseen		
0	Training dataset, seen		
	, the output is known and it randomly trials a high number of input ables to produce a desired output.		
0	Data Mining		
0	Unsupervised Learning		
0	Reinforcement Learning		
O None of these			
the t	lel built using just gets highly biased to the dataset and may raining dataset; whereas model built with; though performs much er than the model trained using entire dataset; (however,) when trained for time,		
0	training dataset, underfit, training & validation data set both, does not affect the model		
0	training dataset, underfit, validation data set, the model gets biased.		
0	training dataset, overfit, validation data set, does not affect the model		
0	training dataset, overfit, training & validation data set both, the model gets biased.		
_	Other:		

An for banks and financial ins application to develop credit rating for th hence no formal credit score.		
<ul> <li>Smart Data Labelling, Un-Supervisory M</li> <li>Ethical credit scoring system, Supervisory ML-b</li> <li>Smart Data Labelling, Supervisory ML-b</li> <li>Ethical credit scoring system, Un-Supervisory ML-b</li> </ul>	ory ML-based pased	
are variables that define th These are directly modified by the learning	e model learned by the learning algorithm. ng algorithm based on the training data.	
onone of these		
testing data		
hyperparameter		
parameter		
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