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
does not depend on either quality or quantity of data data supplied during training
depend on the quality of the data supplied during the training
depend on the quantity of the data supplied during the training
Model performance depend on how the dataset are splitted in the model building.
is irrelevant
does
O does not

!

	ecting whether an email is a spam or a ham or detecting whether a financial 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:
	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
che	refers to the critical process of performing initial investigations lata so as to discover patterns,to spot anomalies,to test hypothesis and to ck assumptions with the help of summary statistics and graphical resentations.
0	Feature Engineering
0	Exploratory Data Analysis
0	Model Training
0	Data gathering

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create a model that has parameters learned by the data.
access
instance based, training data, whole dataset
omodel based, training data, training data
instance based, whole dataset, training data
C motanise success, more dutuses, mamming dutu
model based, whole dataset, training data
A computer program is said to learn from experience E with respect to some task T
and some performance measure P if its performance on T , as measured by P ,
improves with experience E. 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 process of the algorithm examining a large amount of historical weather data.
The weather prediction task.
None of these.
is an application of MI algorithms where the evetem is
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 Ungunerrised
Anomaly detection, Unsupervised
Anomaly detection, Supervised
Association Rule Mining, Supervised
Signature-based detection, Un-supervised
O Signature-based detection, orr-supervised

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
O 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
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.
hyperparameter
testing data
parameter
one of these

H

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.
onone 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, Al
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
principal 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
capable of simulating cognitive abilities.
onot capable of simulating cognitive abilities.
capable of simulating unscientific abilities.
O none of these

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.			
on non-linear non-linear			
onon-linear, linear			
O linear, linear			
(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.			
K Means, prototype based clustering			
Gaussian Mixture Model, Hierarchical Clustering			
BIRCH, Density-based Clustering.			
O DBSCAN, Distribution-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			

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.
Testing dataset, unseen
Validation dataset, unseen
Validation dataset, seen
Training dataset, unseen
Training dataset, seen
In, the output is known and it randomly trials a high number of input variables to produce a desired output.
O Data Mining
O Unsupervised Learning
Reinforcement Learning
None of these
Model built using just gets highly biased to the dataset and may the training dataset; whereas model built with; though performs much better than the model trained using entire dataset; (however,) when trained for long time,
training dataset, underfit, training & validation data set both, does not affect the model
training dataset, underfit, validation data set, the model gets biased.
training dataset, overfit, validation data set, does not affect the model
training dataset, overfit, training & validation data set both, the model gets biased.
Other:

An for banks and financial institutions is a ML application to develop credit rating for those who do not have a credit chence no formal credit score.	
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are variables that define the model learned by the learning. These are directly modified by the learning algorithm based on the train one of these testing data hyperparameter parameter	_
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