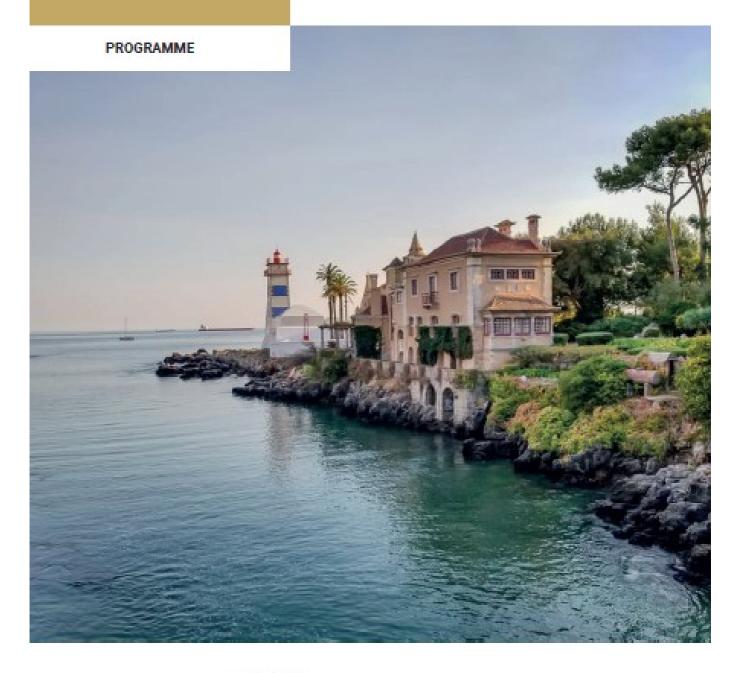
01st & 02st September 2021 Grande Real Villa Itália Hotel Cascais, Portugal

PRIVATE WEALTH EXCELLENCE FORUM 2021

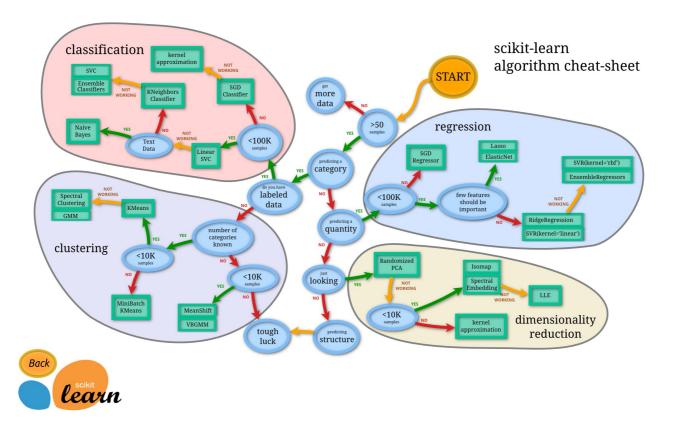


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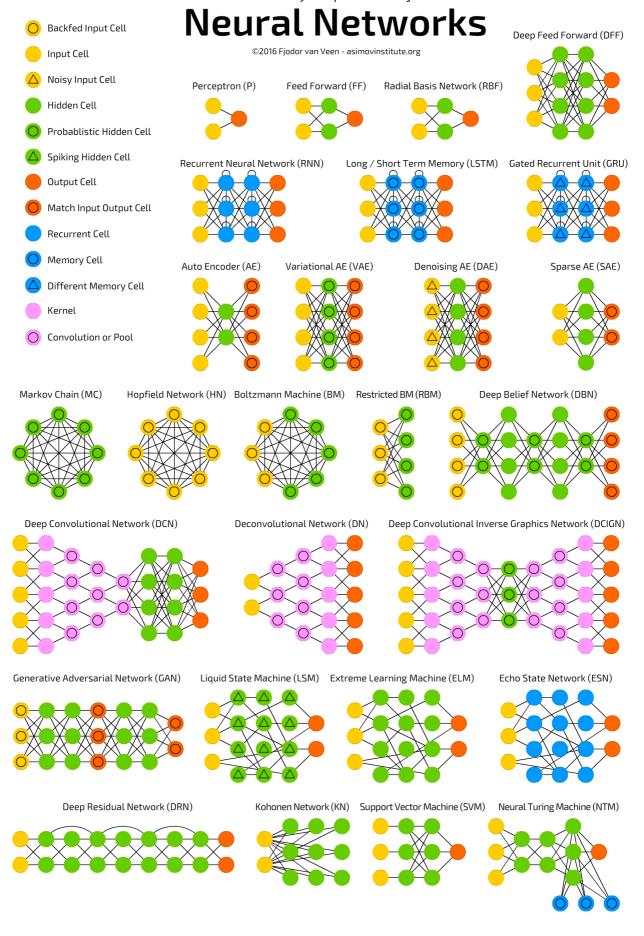


Top Machine Learning Algorithms for Predictions

Name	Туре	Description	Advantages	Disadvantages
Linear Regression		-The best fit line through all data points	-Easy to understand -you can clearly see what the biggest drivers odf the model are.	-sometimes to simple to capture cpmöex relationships between variables, -Tendency für the model to overfit.
Logistic Regression	5	-The adoption for linear regression to problembs of classification	-Easy to understand	-sometimes to simple to capture cpmöex relationships between variables, -Tendency für the model to overfit.
Decision Tree	Y	-A graph that uses branching method to match all possible outcomes of a decision	-Easy to understand and implement.	-Not often use of ist own for prediction because it's also often too simple and not powerful enough for complex data.
Random Forest	X	- Takes the average of many decision trees. Each tree is weaker than the full decision tree, but combining them we get better overall performance.	-A sort of "wisdom of the crowd", Tend to result in very high quality results. -Fast to train	-Can be slow to output predictions relative to other algorithms. -Not easy to understand predictions.
Gradient Boosting	Y	-Uses even weaker decision trees that increasingly focused on "hard examples"	-High-performing	-A small change in the future set or training set can create radical changes in the model. -Not easy to understand predictions
Neural Networks	\times	-Mimics the behaviour of the brain. NNs are interconnected Neurons that pass messages to each other. Deep Learning uses severak layers of NNs to put one after the other.	-Can handle extremely complex tasks. No other alsgorithm comes close in image recognition.	-very very slow to train. Because they have so many layers. Require a lot of power. -Almost impossible to understand predictions.



A mostly complete chart of



MACHINE LEARNING Types of learning What Unsupervised Reinforcement Self - driving car Supervised Chatbot regression Real world applications Why Churn prediction Movie Classification Recommendation Cencer diagnosis Data cleadnsing /exploration/preparation **Process of** Feature engineering "applied" ML Outlier treatment Join Communities Missing Value treatment Learn From experts data modeling Participate Kaggle Competition Model Validation Listen to podcast **Practice** Model evaluation Subscribe newsletters Model deployment Learn Toolbo Multivariate Calculus Python Algorithm & Complexity Theory Keras mlr Optimization Tensorflow dplyr Probability Theory & Statistics Scikit - Learn caret Linear algebra Pandas Numpy FINISH!

