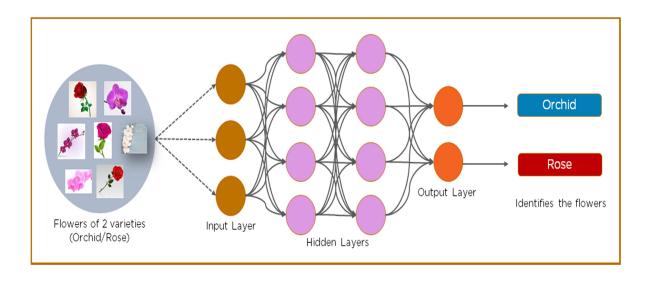
Gender Classification using WIKI IMDB dataset

التوقيع	ID	الاسم
	20160467	نبیل مجد مشهور
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	20160508	يوسف حاتم عبدالرشيد
	20160429	مصطفى محسن مصطفى

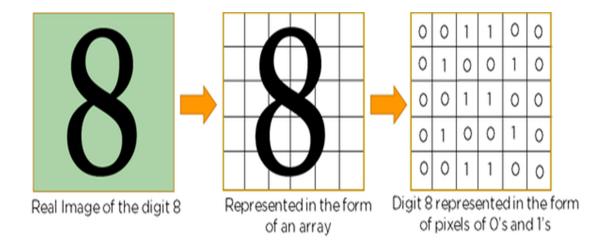
>CNN: -

what is CNN...?

is a feed forward neural network that is generally used to analyze visual images by processing data with grid like topology. A CNN is also known as a "ConvNet"



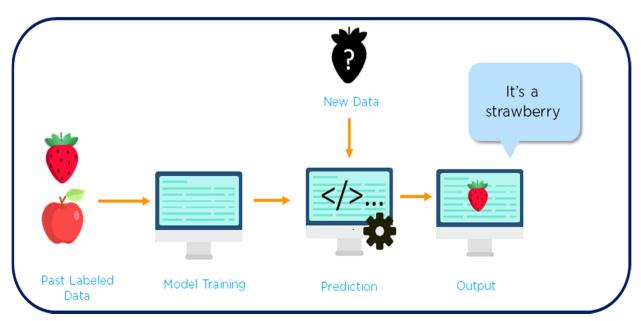
In CNN, every image is represented in the form of arrays of pixel values.



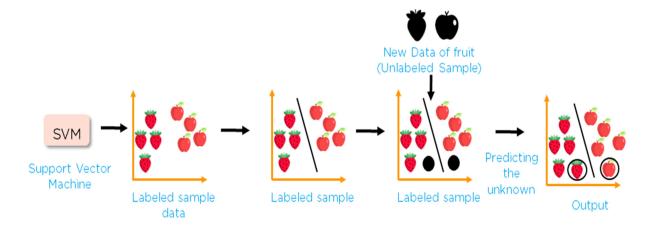
>SVM: -

What is SVM...?

In machine learning, support vector machines are supervised learning model SVM is an algorithm that analyze data used for classification and regression analysis.



SVM is a supervised learning method that looks at data and sorts it into one of the two categories



P.O.C	CNN	SVM
Strengths	CNNs are non-linear.	SVM are linear classifiers.
	CNNs work well with data having spatially recurring patterns. Images, speech.	SVMs with kernels are non- linearity classifiers.
	CNN classifiers feature vectors are useful in many other	Not much restrictions on what kind of data it will work with.
	problems. Very good representation.	No scope of representative's station learning.
	Adding more layer and you increase model complexity.	Effective in high dimensional spaces
	They used to need a lot of training data	Still effective in cases where number of dimensions is greater than the number of samples
		Uses a subset of training points in the decision function (called support vectors), so it is also memory efficient
weaknesses	High computational cost.	No way to increase model complexity.
	 If you don't have a good GPU, they are quite slow to train (for 	If the number of features is
	complex tasks)	much greater than the number

of samples, avoid over-fitting in choosing Kernel functions and regularization term is crucial
SVMs do not directly provide probability estimates, these are calculated using an expensive five-fold cross-validation