Convolution neural networks are used in computer vision.

2 colognier of superried machine learning:

1) In clamification labels are discrete

2) Regulation - any hind of ML where the output is a point on a spectrum.

Where do no get the annotation from?

> Through direct manual work

(inter annatur score,

annutrator agreement metricis

errors are notured in annotations, alispanher make date quarkinste)

from a policy pov :

By- inverterbolites can not be judged from physical appearance.

Annotator agreement is the 1st requirement of adolesed

-) May be available

Determining the best algorithm:

Not always Catching onto the best performing algorithm.

Trade off blu bias & variance:

Not too much variance but

enough to coolder not make it brittle.

Basic algorithms in ML

> K-Nearest Neighbour

Don't have a training set at all. Computational hims, order of 1.

> Devision bree:

Find It feature which Lindes your deta

set into 2 parss.

Find the feature which divides your do the desired outputs.

Cro strongh Mr feature in order of Mein usefulness.

> Bayesian clainfine

Simplest one assumes that all the features do not affect ear other.

This animphon makes the motheration anythe

Desuming linearity pre-condition.

Sometimes it is not a linear assumption.

- > Neural networks

 Can model any hind of non likear relation.
- > Support vector machine

Kernel - will split he Lote points

Can only do binary problems.

Possible to make a binary closifier that an

n losed clossifier.

Car, bilu, bruyclar

Car & others

brite or briggle.

Hultiple me model in a chain

- > Regression
 - · linear
 - · logishe

continuous ontputs

Unsupervised ML Not provided W. annitation. Try to first intend useful pottern) Find out any noticed grouping- clustering Have to give a cluster number user Gues work needed to prompt - (paremetric) User inputs - parameters + hyperparameters Non pasemetri algorithm Chinese Restaurants Indian Buffets does he dose point stay when it is or yo wheel .. an infinite cirmlar Jobbe Away to bypan the parameter poroblem. Natural larguege processing - stopic model . find our stat distribution of all the word. . fine our overlapping thomas . first the ratio of all their thome.

Anomaly detection Neural Network in Unsupernsed Generative Adversarial Network (GAN) Coding > Languege to communicate w. No computer. , Step of immichan > Languages & that operate at the hardware level (morthuri languages) > Human comprehensible instructions. assembled marking language instrutor do humar understaniste larguege (assembly largueges) Larguages similar do English > Py Mon - high level larguage Trade off blw comprehenithty is resource officiency > Compilers and interpretors un by Lm. Jehr your one code and framides into machine understands

> Why use Python?

· Comprehensible

· All rode base for machine barning is in Py Mon.

1DLE