Automoted have willing player. 13th Angust '24

Sulderlands as could regulation & I innovation x innovation x

- IT companies not considered "companies' in India. They are considered as shops.
- curious case of Google etnics councilé · Realized en USA, that too much power in nands of ben big companies.

  O IT companies should be strictly regulated.

  - o Google etrics crucil = cheeks to the scope of produce
  - o courcil produced a paper "Stronastic Parcot" (Readings) o The entire couriel was fired.
  - . No empany can be self-regulated; however empanies ain to increase shareholder value. either innovate Mengerit.

- Accountability -

Use of etnics language to prevent etnical be regulation in called ethics washing LIETZE WYNE W YM KENNE

#### Technosolutionin and reification 17th century victorian Britain addition on providing you streets full of garbage - We go there using a time machine . - what, do we Toserve? Purply with the power - women not equal; considered as property - We feel the need to liberate the people there - Another time protal opens; in comes Elm Musk. - Introduces Pressure cooker; claims to silve the proslem and gresing - Dresny sreve; umen au still expected ce trus parto scrok with takidation Just makes experitation efficient Any societal problem cannot be made by making the existing structural issue faster. Power dresn't change society; efficiency not a solution Eg Less Doctors in India; Technosolutionism says . Down privat strate of the order of the crease Reification part mining debin of for the principal -- supprise, this a cooking crusse. - Easiest way to teach for instructor; Teach best the instit popular dishes. - Final exam based on croking those dishes. Drohlem. - By choosing these dishes, we make a

base reality of cooking.

Treification

Printiguose widespread in Machine Learning.

Al as scapegrat, or the machine never "understand"
Al as scapegrat, or the machine never "understand"
Marin and Britain
- copy striking in Youtube done using Mi.
- may make some eur. The same with
- At by itself not execting problem. It is a tore.
People with the power to deploy them are the cause.
- money to be sound is considered to
Machine Learning
- curse of Dimensionality -> mre au the number of dimensions, mre company
dinensing, mre compaix
ares the underlying mater be and computation to come
ares the underlying mater be and computation becomes
- cross validation III - Take every part as
Training valid validation data.
Y'd about ad towner multing and -
- Active Learning -> Use sed model to filter out the new incoming data; New images
new incoming data. New images
miralis a for which high eur heid to be used.
Eg was sorters in India; Telunosolutionium stys
- Dracle générates synthetic testing use-cases.
- Explainability -> why is midel giving the output
it is giving. Decision Trees.
it is giving. Decision Trees.
16th Angust 24 moures in ord west of your raises
- Supervised ML -> classification (Discrete values)
Annotations? -> manually (Using Annotators)  Need annotator agreement; may
Annotations? -> manually cosing  Need annotator agreement; may
not be sufficient but necessary
not be sufficient but necessary
1 D'
Bise variance Trade offs -> under fitting vs Overfitting
· Rise valiance Trade TSS

- Decision Trees o mango a oranges example of figures ) primares skape "Go through Blatures" tales colo director privile order of their me person in sizerial assignations with M 0 M- Bayesian classifier · uses Probability Theory · Simplest model assumes that beatures don't affect each other. Chaire-Bayes classifier K- Neavest Reighbours in somet interplate - Algorithm works by finding k nearest reighbours to a given data point L'based on some distance metric - The class of the data point is then determined by the majority vote to the k- neighboris. - The above z methods assume the linearity of geatures with respect to the labels. For Non-linear Relations, The following can be sign with machine head Instructions - Newal Networks nicemply harden - support vector machines (svms) · uses the emcept of kernels

· less complex tran NN

· can mey do binary classification

( can be modified to support multiple crassification problems)

## unsupervised ML ( No annotation)

- constering ( Grouping the data)
  - · Needs, number of groups as input.
  - · rm-parametric constering methods also exist which use Bayesian distribution : Eg Chinese restaurants and Indian Buffet.

MUST MICHAI

#### Topic Modelling

- · Eg you are given 100,000 digitized avestion papers. Task is divide them themetically.
- tion Uses statisted distribution of words across draments and uses this distribution in a single document to get the vatio of different themes in the downert
- Neural Networks was a pribarily to when overlings in an Auto- encoders as and I thing state only - of

E-Generative Adversarial Networks (GAN)

o. One paid creates synthetic idata; second part is tasked to figure out wretter data is synthetic or not.

# what is coding? printeled out, writing merid-my

- Began with Machine Level Instructions
- Assembly Language us then developed as a wrapper around machine language.
- nign level language add another layer of abstraction above the Assembly Language. eline Eg Pythm.

Translates in Translates line one go by line.

### Pytrm Tutorial

- '# for comments
- Keywords cannot be used identifiers
- print() for displaying output.
- input() for taking in imput
- feature reclarating ≥ can have much different bunctions in different instances

$$= \frac{3+3}{3} = \frac{6}{3}$$