09/08/24

Arbitraj ⇒ Picking up fund by coorporate, by finding gap in market
(mainly happen in Japan)

→ 2nd (1980) AI winter, not due to scientific curiosity as before (1st boom) 1934

Gap filled ——→ demand af AI↓ (1987)

2011 ——→ GPU comes and people started trainning models through GPU
↓
3rd AI boom (hype cycle).

- India doesn't has any AI law
- But India has a AI policy

Future of

Nirmala Sitaraman ——→ AI Task Force ——→ 1st policy (document) on AI in India

NITI Aayog ——→ Why not we have "Maven" ——→ criticize ——→ Responsible AI

FRT (protest against)
↳ Privacy get hampered (human right violated)

MDL is stochastic technology ⇒ There surely error will come in future in FRT system

Innovation ←✗→ Regulation
Regulation is not a monolithic, is not for good or bad
Regulation good for masses often bad for business.

Luddites ——→ Brunch of people, angry with new technology

(MSME)

↳ IT doesn't come under this.
↓
like a shopkeeper

"Do no harm" Google/ IT sector self regulation → to stop being regulated

Companies are incapable of self governess/self regulated.
↳ As,
Aim is increase shareholder's value

Company having ethics council is not a real sol^n
(Google).

"Ethics Washing" → Showing we are regulated so no need of extra regulation
↳ EX = "Green Planet Earth"
under this addvertisement of oil company

⇒ Societal problem can't be solved by rush through them
" pressure cooker can't give women more free time "

⇒ Technology makes things faster but not solve

"Solving complex ß social problem through technology ⇒ Techno solutionism "
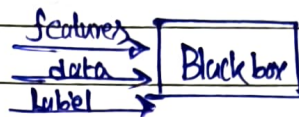↳ Evgeni Morosom

"Making category and making it into reality ⇒ Reification "
↳ Cooking course → 3 category
↳ Best cook.

Decision of using AI ⇒ policy
AI never does policy

① Training data ⎤
② Validation data ⎬ Supervised ML (need training data with anotation
③ Testing data ⎦ comes from human labour)

Features — useful qualities extracted from data point.

At old day

features
data → Black box
label

Now

data
Label → Black box

Cross Validation :-

Art of breaking training data in several parts and repeatedly training on that

Active Learning :- "Retrain the model with whole data when we get new data is not logical"
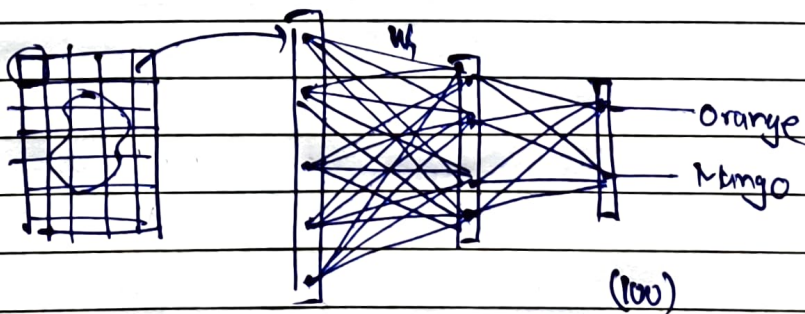
Ensemble Learning :- Take multiple model and join them

Oracle :- No eng e nogh data, generate synthetic training data

Overfitting :- data points very similar to each other, coming anomeaus i/p give Wrong answer

Model being overfitted — Brittle model

Explainability :- Transparency

Bias :- unrelated o/p.

Orange

Mango

(100)

Neutral network with many intermediate layer → Deep neural network
" " with no " " only i/p and o/p later
One or more layer with
Deep Neural network with convolution work → Perceptron
↳ Convolution NN
Find the edges of image