Week 2 continued.
what is Al policy?
Regulations
Répulations de not home a relationship we innovation.
But the bellef that royulahous are will profession
to showohow lead to bad policy making, in a lack of policy
wind a
Countries w. a lack of scholarship in policy do not have any
Countries w. a lock of scholarship in policy do not have any regulations in 17, Lota, tech.
No 17 companier come under 1015.
17 employees don't are not covered in the labour ans.
a in a moderitation.
Rate of people being hered in the abjected seeder has sharply declined. I People are being hired to replace former employees.
People are being hined do replace former employees.
The Commission Cax of the
Digital sector has a planticul large potential cause horn. Digital sector has a planticul large potential cause horn. So much power guer do so fer companie caused paramere. Led to the need for 17 companie /objet of sector companie being regulated in the sector companie ("Do no horn") Regulator 2 Self regulator ("Do no horn")
Digital sector to so for compania caused paranois.
So much pour of 17 companie / digital sector companit beig
regulated 2 Sey regulation ("Do no harm") Regulator 2 Sey regulation (hours) la surre
Regulator 2 Sey regulation la service
1 by 90 gre
check by the Croosle Ethics Council. Check by the Croosle Ethics Council was fired!
troope employees the country tounar of

Companier are fundamentally incapable of sulf governance. The cum of any company is to wherease shoreholder volue. There are 2 ways & maximise poofirs = instrate Emploitation is a mathematical choice as upposed to a moral Innovation has an upper limit. In the Al Sector companies are self regulating. Minosoft came under fire for selling their AI products to border sensity fores (Eshius Weshing ") Techno Solutionism and Reification Personhood and emploitation are not solved by trying to rush through them w. technology. Souetal problems (structural issues) cannot be suplaced w. an accelerant. Technology does not change the original scenario. lower is not changed by technology, only velocity is. Evgeny Morosov

" False reality "

Making categories and making them into reality is oreinstantion.

The entire field of machine learning has the problem of reinfication

Circular Logic.

Colegorie are created, competehon as hoppening in those cotegorie, and now solutions as termed as state of the art.

We should not conflate reifestion w. Scientific, objectue druth.

Al as the scapegoat

The entire full on AI is a technology; the decision to use or mor use the technology is policy.

" Copystike"

A simple machine learning algorithm.

Reople are often wrongly copystriked.

The deusion to use this code come from the rediscion that to have people to do this work, companie hour to spend money. The deusion of use to these code is a human, corporate or political deusion.

Al does not have the gency to cause those problems.

At has Every tool was has its interest qualities, eg. Al es stochastic in nature.

The decision to use this tech is Mr. a newtourd lautomotic decision.
The problem that arise can not be bloomed on the feature of the tech, humans need to be held accountable.

Week3.
Meek3 Thhoduction to Machine Learning
What is machin learning?
Algorithms that improve automatically through experience by using data.
Training) tagged /annotated
Validation) know transver — pipeline of supervised machine learning
(Testing) don't know the amoves
Jeatures - the attributes that are being identified. Useful qualities entracted from on doz point.
image feature answer
For every fedure, on dimension is colded.
For poeters, we are working in an n dimannois space.
"Charge of dimensionality".
Finding the useful dimension is called dimensionable radiation
PCA (Principal Component Analysis)
Cloogle Colab

Jargon

· Cross validation

Validohm procen is problembi; could just be a statished outlier because of the small size of the det set.

It can be made more robust by volldety it many homeover. Bredigh hainly dose o and using it to repeated & validate.

· Active learning

Is retrain a all date every him logical? No! See where the error is come showing.

In every step of the sterchor, your see when the made lawing fails and un those data points to retrain.

· Ensemble learning

Taking a bunch of models & jaining them

· Oracle:

Creater synthetic testic use case

· Overfithy

Date points in the training set are so similar to each other the model has a very narrow supp of vision. It is called a brittle model. It is easy to break w. an aromdous date point.

· Enplaindillety

Can give an explandion about the desult & shows.

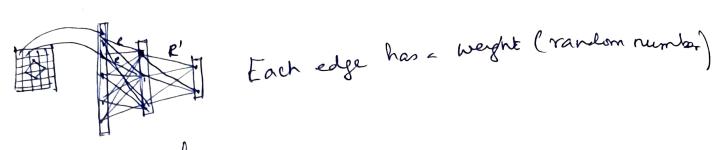
• Bias

A feature which should be adevant to the amwer is irrelevant.

A newal network has ar input layer and ar output layer.

signed of the error goes backward to

charged error Jest of thedge.



Errors flatten out. Back propagation -

Convolutions process

Simple neural network - perception

- period deep veurd network Hullaph layers