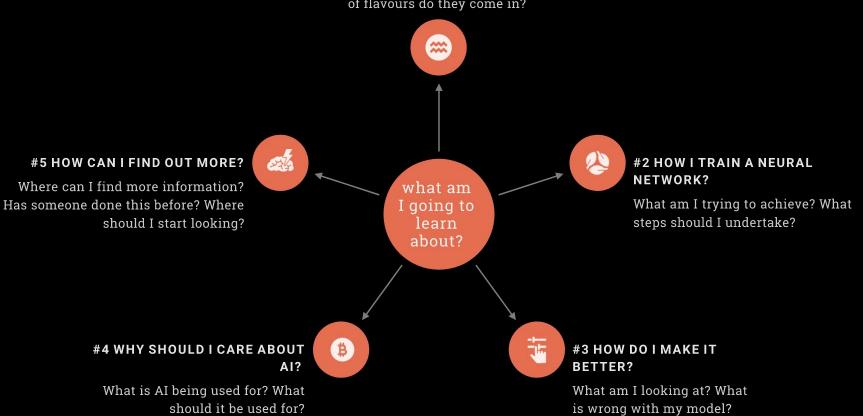
"Please can you give an Introduction to Artificial Intelligence or maybe just Neural Nets?"

-STANISLAW BIBER (2022)

#### **#1 HOW DO NEURAL NETWORKS WORK?**

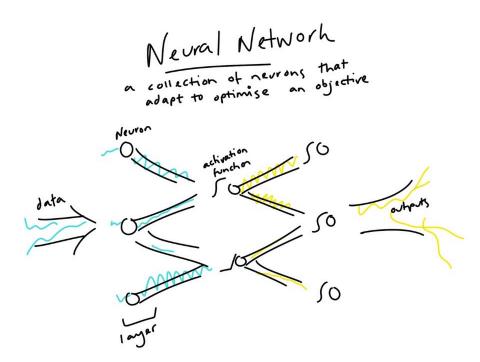
How do they pass information? How do they change? What sort of flavours do they come in?



## What is a Neural Network?

How does information flow through the network?

What really makes up a neural network?

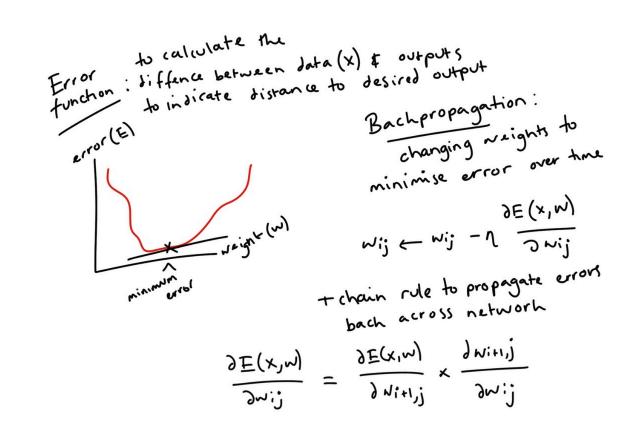


# How does a Neural Network change?

How does the network learn?

How is the change calculated?

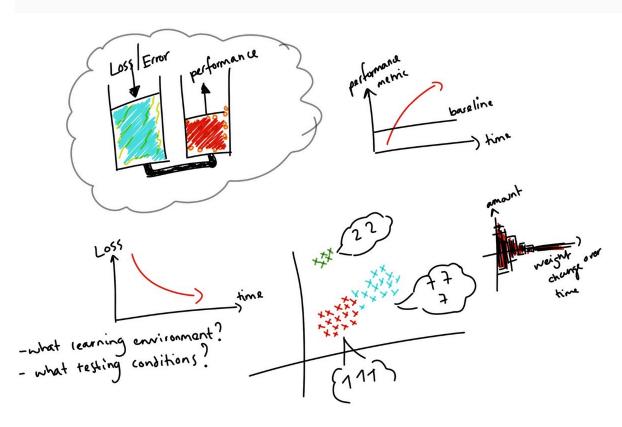
What does the network optimise towards?

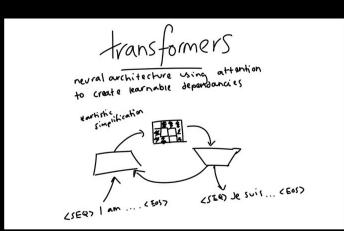


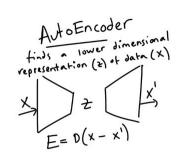
# How do I observe this change?

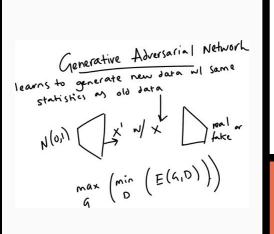
How do I know it's working?

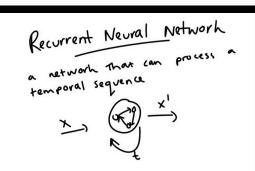
What exactly is going on?

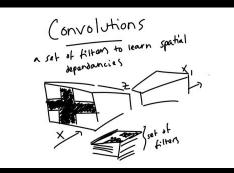






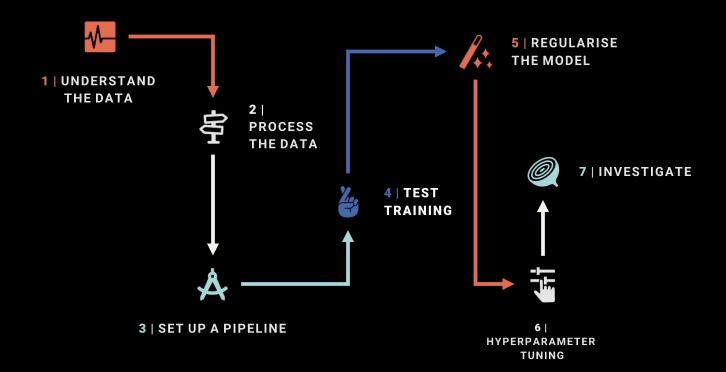






What
types of
architecture
can I choose
from?

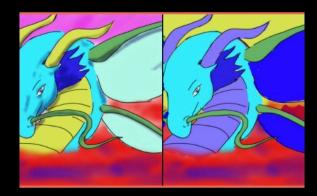
## How do I go about training a model?



## What are some applications of AI being used by humans?

How might AI aid us in the future?

What sort of examples can you give that are used right now?



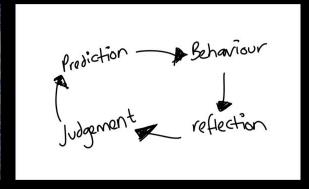
SIMPLISTIC DRAWING TO ...

Simplistic drawing concepts to actual graphics



**GENERATIVE ART** 

https://twitter.com/emporiumloris/status/1524909939608649735?s=21



#### TO ... PREDICTIVE ENFORCING

Identify habits, personalities, behaviours, likes, pressure points to sell your data, to influence you, continue your addiction circles

### Research

How do I find more research? Are they implementations already written? Where can I learn more theory? How can I manage to keep up to date? Are there places I can learn to implement my own ideas? What are other people doing?



#### #1 GOOGLE IT

- scholar.google.com
- connectedpapers.com



#### **#4 TUTORIALS**

pytorch.org/tutorials/index.html
pytorch-lightning.readthedocs.io



#### #2 IMPLEMENTATIONS

- paperswithcode.com hopefully intuitive
- nn.labml.ai pytorch implementations alongside markdown math



#### **#5 NEWSLETTERS**

- thegradient.pub ethics, policy, vision, language, trends and perspectives
- twitter



#### **#3 TRAINING COURSES**

- atcold.github.io/didactics.html
- www.youtube.com/c/MichaelBronsteinGDL



#### **#6 HELPFUL WEBPAGES**

towardsdatascience.com - learning
huggingface.co - building and using
kaggle.com - datasets, competitions and
code

## Finishing Touches

