

ICT & BUSINESS FACULTY

TRANSITION PROJECT: WORLD OF WONDER

Artificial Intelligence, and specifically Machine Learning, is a concept that is revolutionising the world. Rather than telling computers how to do something we give them a shed-load of examples of something and let them come up with the rules on how to do something. This means that everything from identifying people by their faces to unlock your phone, to playing fortnite can be automated really expertley better than anything we've ever built before.

Online

Face Unlock

Use machine learning to create a virtual phone in Scratch that only unlocks for your face. This is very similar to how face unlock works on Android devices.

ai.mybook.org.uk/face

If you get this working why not try and find out what happens if you drastically change your look, like putting on a pair of sunglasses?

Sentiment Analysis

Develop a machine learning algorithm that will be able to identify if a sentence has a positive or negative meaning and, as a result, animate an emoji to smile or frown. This is often used by advertisers on social media posts.

ai.mybook.org.uk/sentiment

Sentiment analysis is used a lot in automatic moderation tools, how does discord's automoderator feature work?

Offline

Caesar Cipher

A Caesar Cipher is a way of encrypting text so that it can't be read unless you know the method.

Below is a message written with a cypher that makes A->C, B->D, C->E, etc. See if you can decrypt it and see what it should say!

Ygneqog vq Uv Eatgu KEV yjgtg
aqw yknnnn jcxg cp cocbkpi vkog

en.wikipedia.org/wiki/Caesar_cipher

This is an example of a Caesar cipher that uses an offset of +2, try seeing what different offsets give and share encrypted messages with your friends.

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