

What should I know about Artificial Intelligence?

What is Artificial Intelligence (AI)?

Computer systems that can behave intelligently, reason, and learn like humans

What types of AI are part of our daily lives?

Voice assistants (e.g. Alexa & Siri); Netflix or YouTube video recommendations; smart phones; face filters; Google Maps.

How do AI systems learn?

Humans teach computers how to learn and improve with experience. The process is called **machine learning**

What is machine learning?

Data is input into a learning model (**training data**). The model learns from the data from the data to make **predictions**

What factors affect the reliability of machine learning model?

The quality and amount of training data.

Examples



Voice Assistants

E.g. Alexa, Siri. Listen to and respond to our voices. Answer questions & perform actions



Google Maps

An AI system using real-time traffic and location information. Gives users the best route to a place



Netflix

Gives recommendations about what you might like to watch next. Based on what you've watched before.

Key Vocabulary



Artificial Intelligence: a system capable of behaving intelligently



Machine Learning: enables computers to learn and make predictions or decisions based on **input data**



Training Data: a collection of data used to train algorithms



Prediction: forecasting events or outcomes based on data, using machine learning algorithms to make informed decisions.



Testing: testing the predictions of a machine learning model

