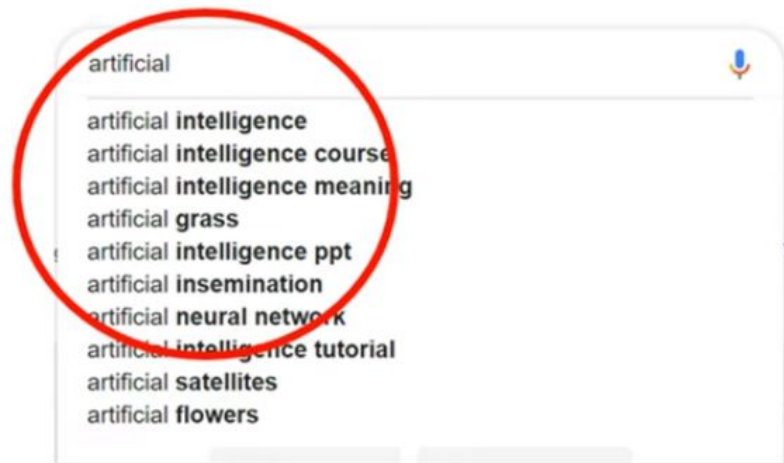
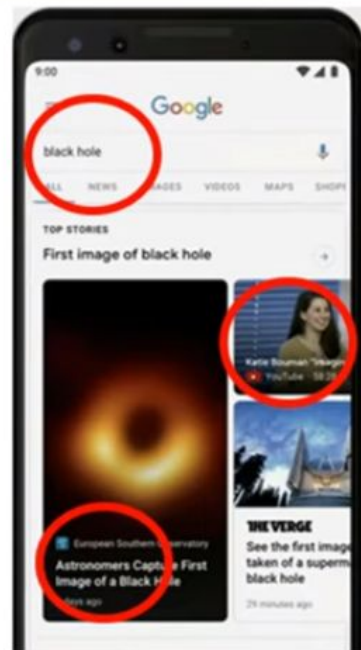


What is Machine Learning



Google Recommendation



Youtube video timing - 4:47

<https://youtu.be/lyRPyRXH08M>

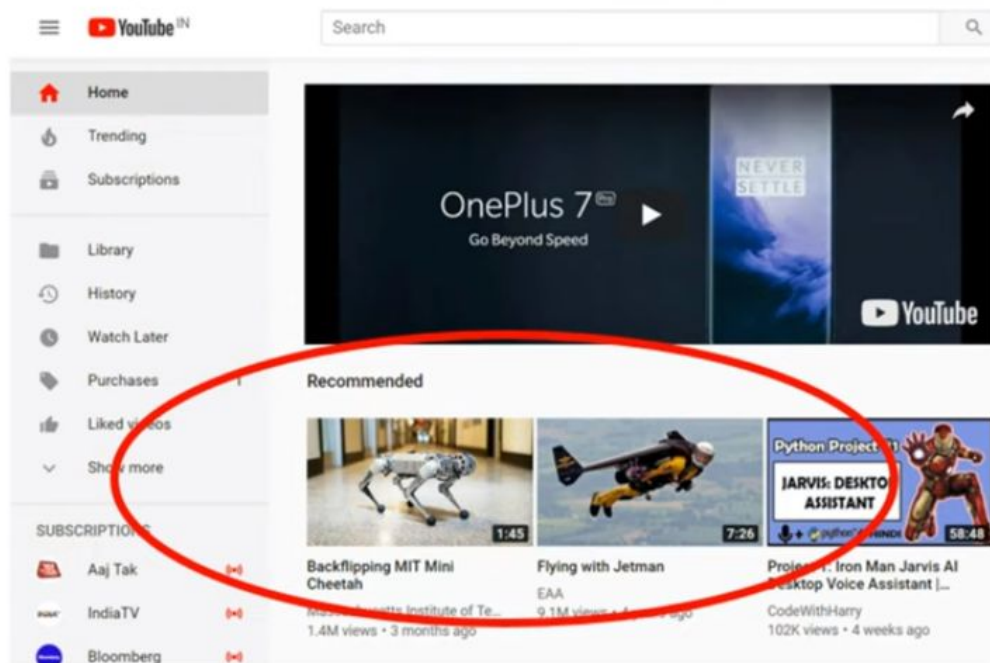
Recommendation System

The screenshot shows the Amazon homepage with a search bar containing the word 'laptops'. Below the search bar, there are several navigation links and a '24/7 Customer service' link. The main content area displays a list of recommended laptops, including the ASUS Chromebook Flip CX415A, the ASUS ZenBook 14, and the Lenovo Flex 15. Each laptop is shown with its image, name, and a star rating. The left sidebar contains filters for 'Department', 'Avg. Customer Review', and 'Brand'.

This screenshot is similar to the one on the left, but it highlights the 'Editorial recommendations' section with a red circle. This section features a 'Laptops' category with three 'Recommended' laptops: the Apple MacBook Pro (13-inch), the ASUS ZenBook 14, and the Lenovo Flex 15. Each laptop is shown with its image, name, and a star rating. The right sidebar contains filters for 'Department', 'Avg. Customer Review', and 'Brand'.

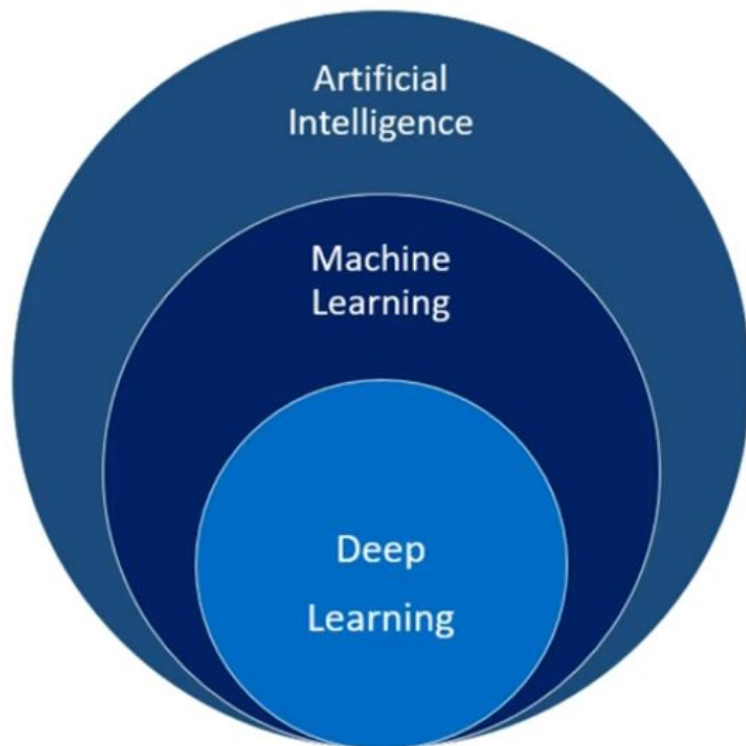
Amazon Recommendation

Recommendation System



Youtube Recommendation

Artificial Intelligence vs Machine Learning vs Deep Learning



Traditional Programming vs Machine Learning



Formal Definition of Machine Learning

"A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P if its performance at tasks in T , as measured by P , improves with experience E ."

-Tom M. Mitchell

How Does Machine Learning Works ?

Machine Learning algorithm is trained using a training data set to create a model. When new input data(test data) is introduced to the ML algorithm, it makes a prediction on the basis of the model.

The prediction is evaluated for accuracy and if the accuracy is acceptable, the Machine Learning algorithm is deployed. If the accuracy is not acceptable, the Machine Learning algorithm is trained again and again with an augmented training data set.

What is Data Mining ?

Data mining is the process of discovering patterns in large data sets involving methods at the intersection of machine learning, statistics, and database systems.

Data mining is the analysis step of the "knowledge discovery in databases" process, or "KDD"

What is Predictive Modeling ?

Predictive modeling is a process that uses data mining and probability to forecast outcomes.