DATA SCIENCE

What's in it for you

►

Need for Data Science

What is Data Science?

Data Science vs Business Intelligence

The Prerequisites for learning Data Science

What does a Data Scientist do?

Data Science lifecycle with example

Demand for Data Scientist



NEED FOR DATA SCIENCE

Need For Data Science

This is where the Need For Data Science comes into picture. It is able to make better decisions!

Exactly! And then let the machine learn using feedback each time using unsupervised learning! You mean it will be able to take *decisions* like slowing down, stopping by itself, speeding up and all of that?

That's interesting!

Self driving cars will root out more than 2 million deaths caused by car accidents annually.



TESLA

WAYMO

We're extremely sorry to inform you that there are no flights for the time selected. There's a connecting flight for the same time tomorrow.

Due to lack of data available, flights are often delayed or cancelled at the last minute



Due to improper route planning, customers don't get the flight for desired time and duration

Dear Flyer, We regret to inform you that your flight has been cancelled due to delay from Airbus on account of engine delivery Due to lack of data available, flights are often delayed or cancelled at the last minute

Ĭ

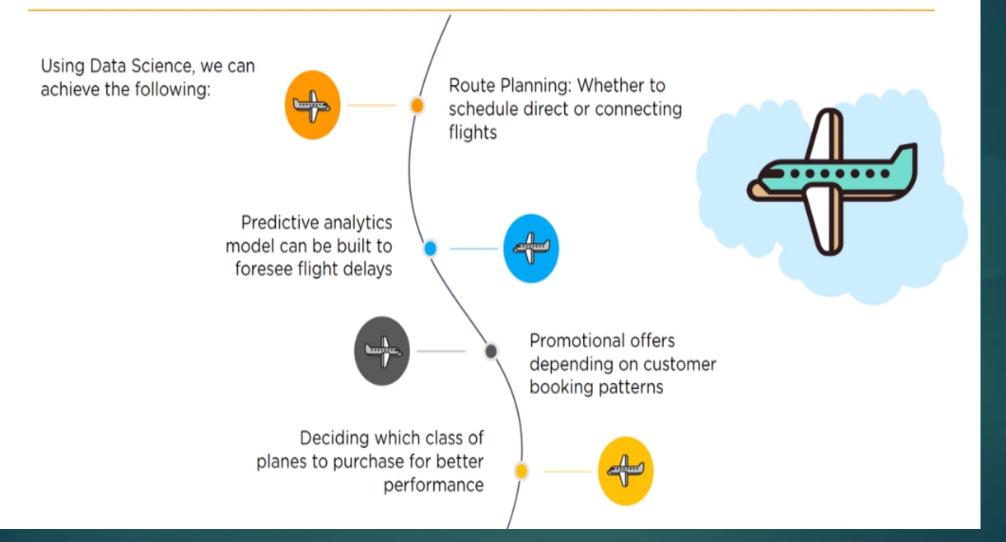
Due to improper route planning, customers don't get the flight for desired time and duration

Incorrect decisions in selection of right equipment leads to unplanned delays and cancellations

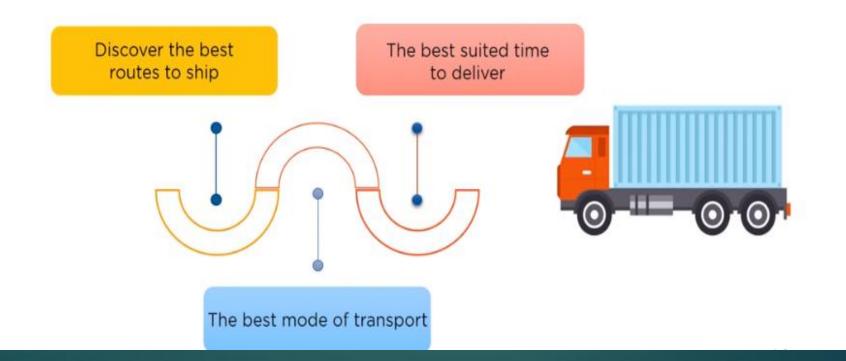


With Data Science, it has become possible to predict such disruptions and alleviate the loss for both airline and the passenger





Logistics companies like FedEx are using Data Science models for operational efficiency



So Data Science is mainly needed for:



Better Decision Making

Whether A or B?



...

Predictive Analysis

What will happen next?

Pattern Discovery

Is there any hidden information in the data?

WHAT IS DATA SCIENCE?

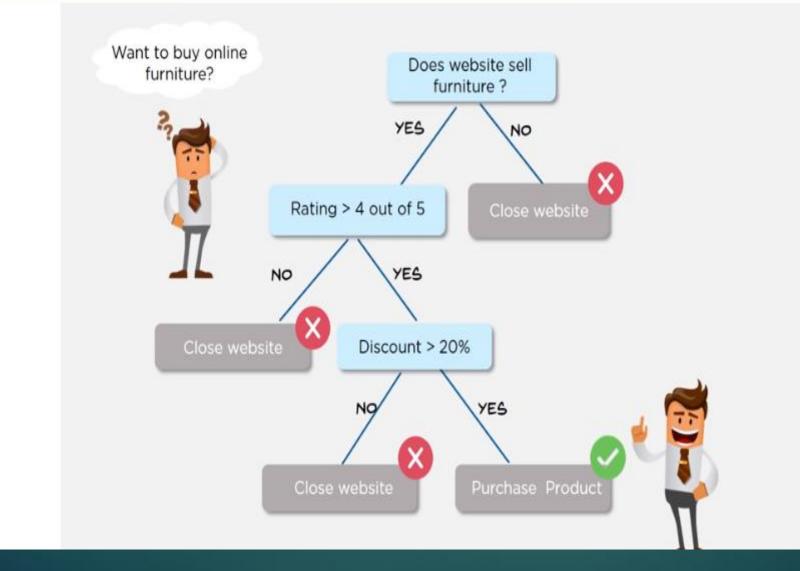
Data science is the study of data. It involves developing methods of recording, storing, and analyzing data to effectively extract useful information. The goal of data science is to gain insights and knowledge from any type of data — both structured and unstructured.

Data science is related to computer science, but is a separate field. Computer science involves creating programs and algorithms to record and process data, while data science covers any type of data analysis, which may or may not use computers. Data science is more closely related to the mathematics field of Statistics, which includes the collection, organization, analysis, and presentation of data. Because of the large amounts of data modern companies and organizations maintain, data science has become an integral part of IT. For example, a company that has petabytes of user data may use data science to develop effective ways to store, manage, and analyze the data. The company may use the scientific method to run tests and extract results that can provide meaningful insights about their users.

Suppose, you have decided to buy furniture online for your new office

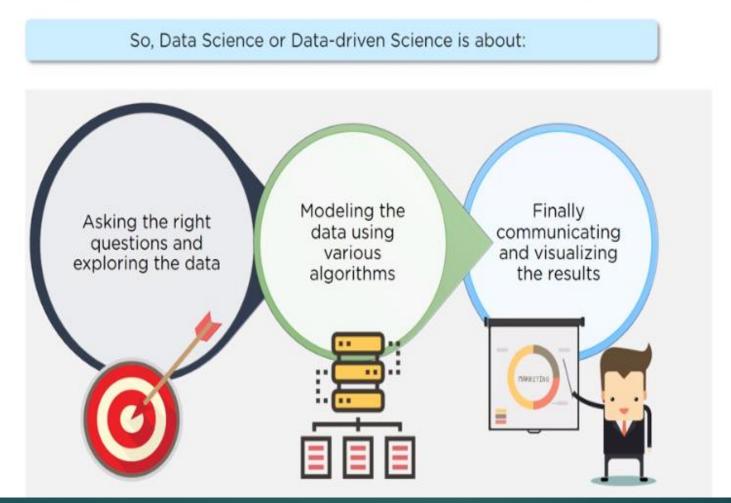


How do you choose the right website?



Data Science can answer a lot of other questions as well!





BUSSINESS INTELLIGENCE VS DATA SCIENCE

Business Intelligence vs Data Science

