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Agenda



Fundamental of R

Data Analytic

What is R

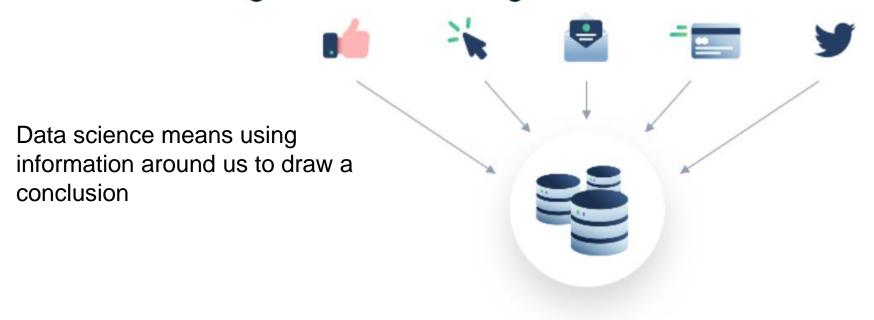
R is a Language & Envrionment for Statistical Computing.

R provides a wide variety of statistical (linear and nonlinear modeling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible.



Data science?

Making data work for you



Use data to better describe the present or better predict the future

What can data do?

- Describe the current state of an organization or process
- Detect anomalous events
- Diagnose the causes of events and behaviors
- Predict future events

The data science workflow



Sources of data Company data

- Collected by companies
- Helps them make data-driven decisions

Open data

- Free, open data sources
- Can be used, shared, and built-on by anyone





Company data

- Web events
- Survey data
- Customer data
- Logistics data
- Financial transactions



Open data source

APIS & PUBLIC RECORDS

Public data APIs

- Application Programming Interface
- Request data over the internet

- Twitter
- Wikipedia
- Yahoo! Finance
- Google Maps
- Many more!

Public records

- International organizations
 - o e.g.: World Bank, UN, WTO
- National statistical offices
 - e.g.: censuses, surveys
- Government agencies
 - o e.g.: weather, environment, population

Why prepare data?

- Real-life data is messy
- Preparation is done to prevent:
 - o errors
 - o incorrect results
 - o biasing algorithms





