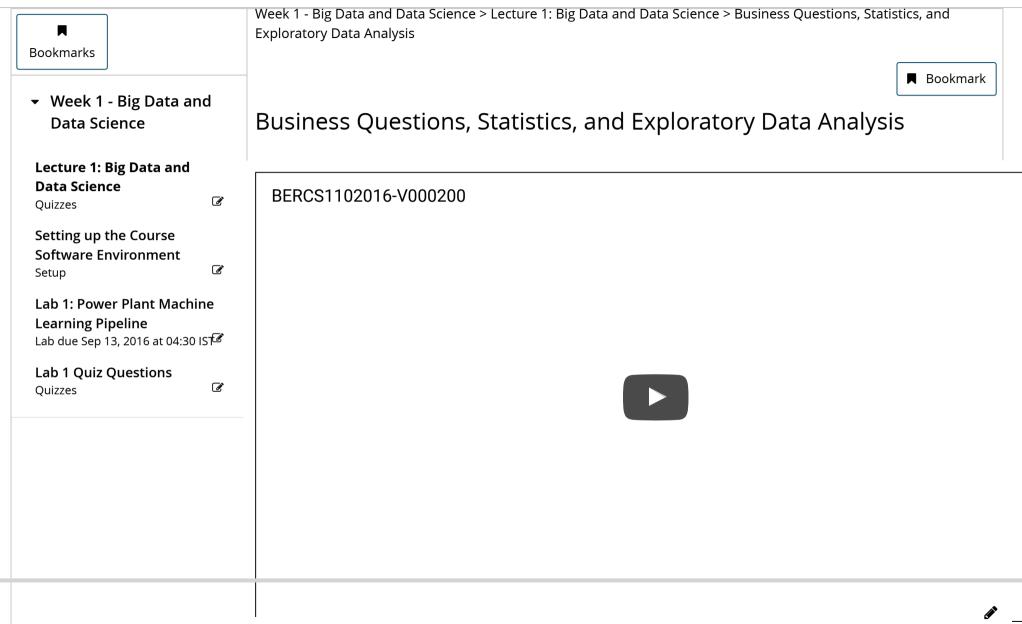


BerkeleyX: CS110x Big Data Analysis with Apache Spark



Download video Download transcript .srt

Here is a good description of the difference between descriptive and inferential statistics.

SUPERVISED LEARNING

- kNN (k Nearest Neighbors)
- Naive Bayes
- Logistic Regression
- Support Vector Machines
- Random Forests

UNSUPERVISED LEARNING

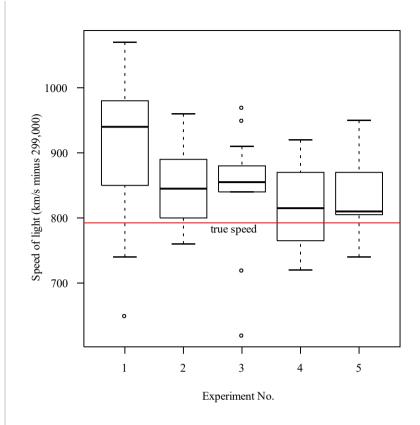
- Clustering
- Factor Analysis
- Latent Dirichlet Allocation

The US National Institute of Standards and Technology has an excellent primer on Exploratory Data Analysis.

The five-number summary is a descriptive statistic that provides information about a set of observations. It consists of the five most important sample percentiles:

- 1. The sample minimum (smallest observation)
- 2. The lower quartile or first quartile
- 3. The median (middle value)
- 4. The upper quartile or third quartile
- 5. The sample maximum (largest observation)

You can compare the five-number summaries of multiple observations using a box plot:



S Programming Language

(1/1 point)

Where was the S programming language invented?

Google

O University of Auckland, New Zealand
UC Berkeley
Bell Labs
O Dartmouth College

EXPLANATION

The S programming language was developed at Bell Labs for Exploratory Data Analysis.

Spark 1.4 introduced SparkR (R on Spark). SparkR provides a distributed data frame implementation that supports operations like selection, filtering, aggregation etc. (similar to R data frames) but on large datasets.

Exploratory Data Analysis

(1/1 point)

Which of the following is NOT a typical Exploratory Data Analysis activity?

- Visualizing data distributions
- Calculating summary statistics
- Examining data distributions
- Fitting a Support Vector Machine

EXPLANATION

The activities of EDA include visualizing the data distributions, calculating summary statistics for the data, and examining the distributions of the data.

⊚ ③ ⑤ ⑤ Some Rights Reserved



© edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

















