Cheatography

Data Analytics Test Cheat Sheet by [deleted] via cheatography.com/31239/cs/9441/

Data Science

- •Business Analytics the skills, technologies, applications, and practices for continuous, iterative exploration and investigation of past business performance to gain insight and drive business planning
- -Data Mining the computational process of discovering patterns in large data sets ("big data")
- Big Data the term for a collection of data sets so large and complex that it becomes difficult to process using on-hand database management tools or traditional data processing applications
- •Business Intelligence a set of theories, methodologies, architectures, and technologies that transform raw data into meaningful and useful information for business purposes
- Descriptive Analytics to gain insight from historical data with reporting, scorecards, clustering, etc.

•Predictive Analytics - a variety of

techniques from statistics, modeling, machine learning, and data mining that analyze current and historical facts to make predictions about future, or otherwise unknown, events

Data Science (cont)

•Prescriptive Analytics - automatically synthesizes big data, multiple disciplines of mathematical sciences and computational sciences, and business rules, to make predictions and then suggests decision options to take advantage of the predictions

CRISP-DM

Cross Industry Standard Process for Data Mining (CRISP-DM):

- 1. Business understanding
- 2. Data understanding
- 3. Data preparation
- 4. Modeling
- 5. Evaluation
- 6. Deployment

Cluster Analysis

Defini- Partitional vs Hierar- retained tions chical

•Type of analysis: –Unsupervised (looking for natural relationships - not trying to predict a target variable) •Type of data: – Quantitative (interval/ratio) and/or qualitative (ordinal/nominal) data may be used in cluster analysis •Types of business questions answered: –Do cases (e.g., customers, employees, etc.) tend to cluster into natural groups that we can use to take some action?



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