Doing the right things

Doing things right

Discover

Research Phase

Define Synthesis Phase

[0] Collection

[1] Access

+ Retrieval

Big Data (Acuisition/Aggregation) Gathering
Empirical(Sensor/IoT Measuring/Sampling)

Ownership (Open/Closed)
Storage (Cloud/Database)

[2] Preparation + Wrangling (Munging)

Loading
Feature Extraction/Reduction
Normalization
Transformation
Conversion

Develop

Ideation Phase

Deliver

Implementation Phase

- [3] Exploration
- [4] Analysis + Machine-Learning
- [5] Abstraction

Graphical (spatial)
Ontological (Language)
Semantic (text)
Rule-based/Algorithmic
Quantitative/Qualitative
Numerical/Categorical/Symbolic

Mining (Heuristics/Statistics/Descriptive/Prescriptive)
Construct Useful Insights/Trends/Patterns/Diagnosis(Information)

Parameter Selection + Representation Summarization Problem Solving Diagnostic Prediction Encription

- [6] Organization + Managing

Visualization Virtualization

Performance (Measure/Monitor)
Evaluation & Review
Decision & Advise or Prescription
(Interactive/Passive) Story Telling

Data
Gathering & Ingesting

Data
Dissemination & Curation