Step 3:

Analyze Data

Big Data Engineering

Computational Big Data Science

ACQUIRE

PREPARE

ANALYZE

REPORT

ACT

Input Data

Analysis
Technique

Build Model

Model Output

Categories of Analysis Techniques

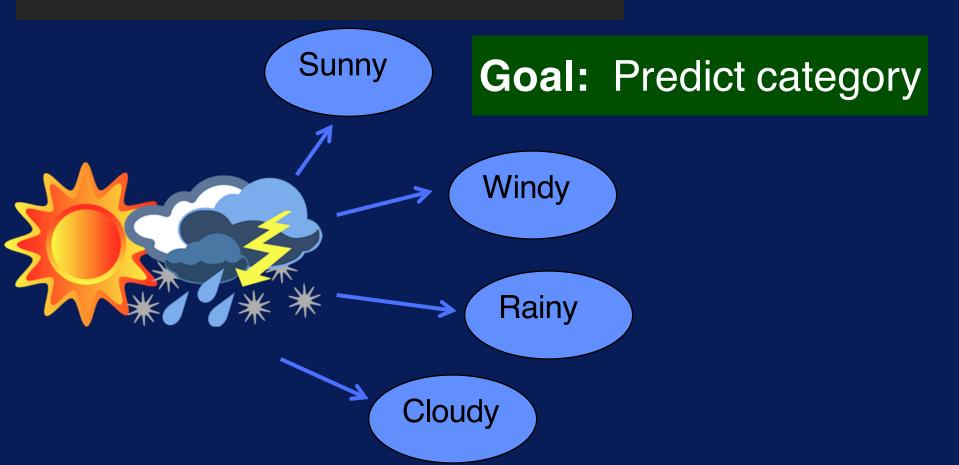
Classification

Regression

Clustering

Graph Analytics Association Analysis

Classification



Regression

Goal: Predict numeric value



Clustering

Goal: Organize similar items into groups



Association Analysis

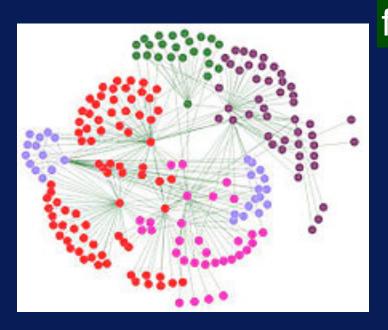








Graph Analytics



Goal: Use graph structures to find connections between entities

Modeling

Select technique



Build model



Validate model

Evaluation of Results

Classification & Regression

Predicted Value



Correct Value

Clustering



Association Analysis & Graph Analytics



Investigate



Validate

Determine Next Steps



Repeat analysis?

Take deeper dive?

Act on results?

Select technique

Build model

Evaluate

Classification
Regression
Clustering
Association
Analysis
Graph Analytics



