

Step 3:

Analyze Data

After this video you will be able to..

- Describe what is involved in applying an analysis technique to your data
- List three basic analysis techniques

Big Data Engineering

Computational Big Data Science

ACQUIRE

PREPARE

ANALYZE

REPORT

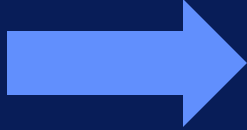
ACT

Build Model

Input Data



Analysis
Technique



Model



Model Output

Categories of Analysis Techniques

Classification

Regression

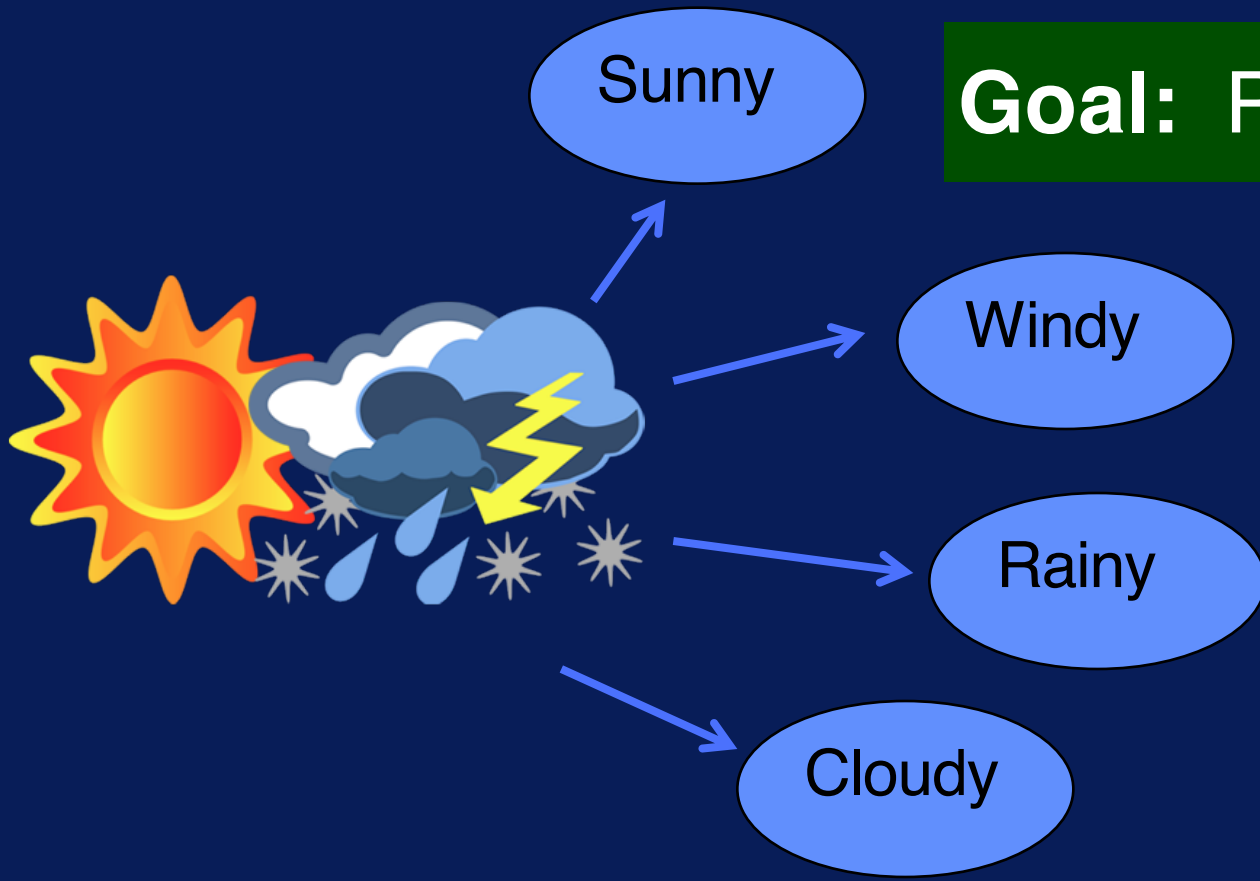
Clustering

Graph
Analytics

Association
Analysis

Classification

Goal: Predict category



Regression

Goal: Predict numeric value



Clustering

Goal: Organize similar items into groups



Association Analysis



Goal: Find rules to capture associations between items



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

