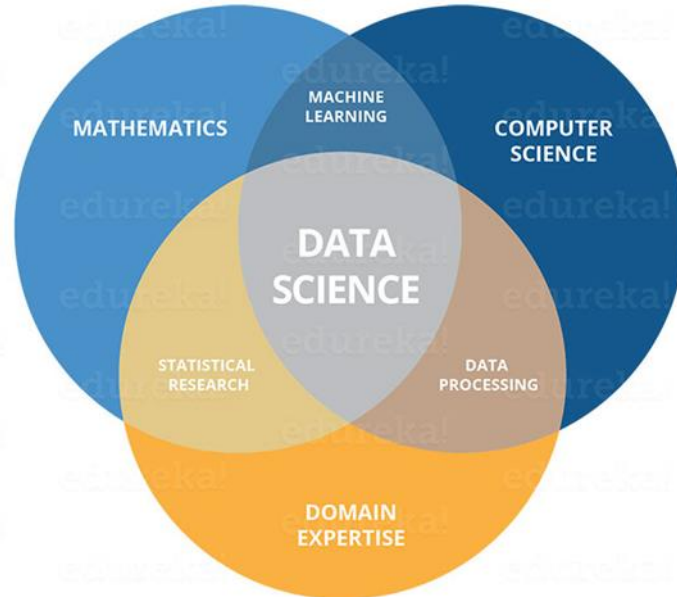# Data Science

Data Science

- Skill of extraction of knowledge from data

- Using knowledge to predict the unknown

- Improve business outcomes with the power of data
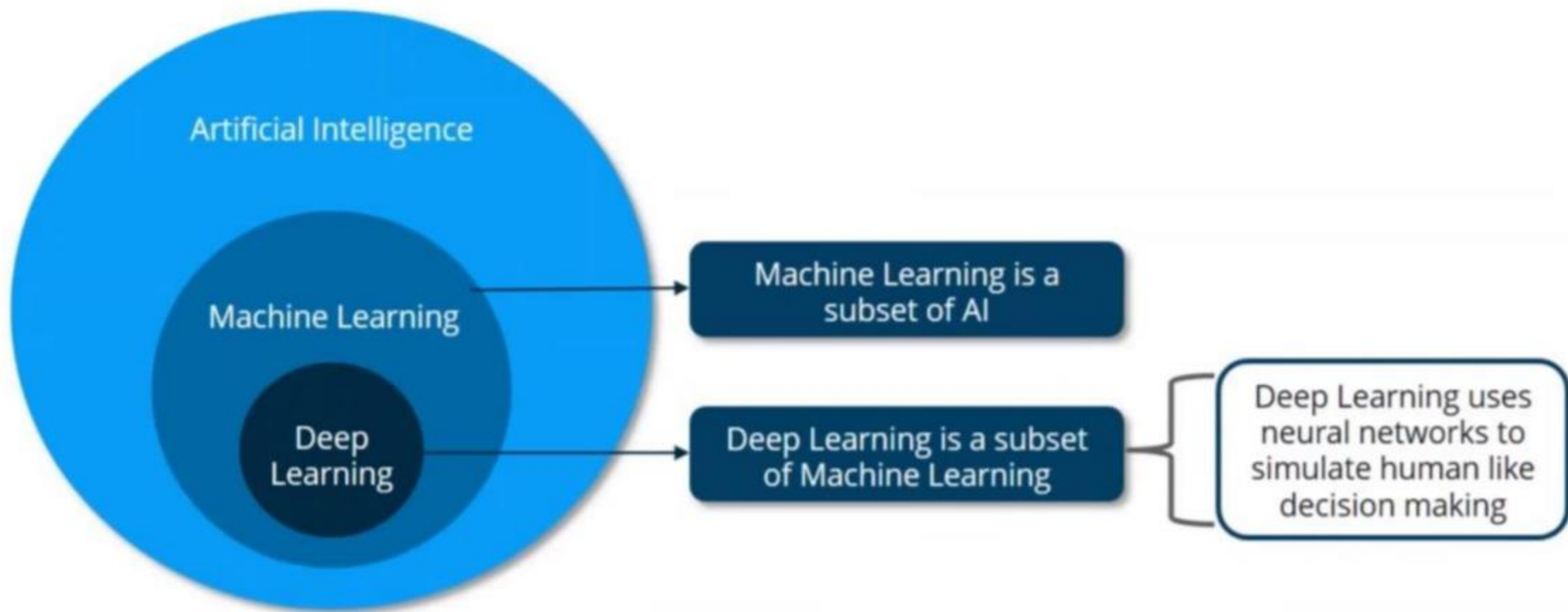
Machine Learning

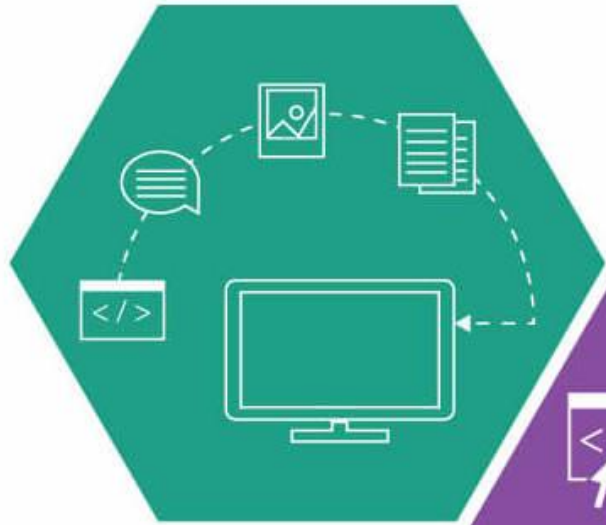Computers are beginning to learn from data without explicitly programmed

Machine Learning

Artificial Intelligence

Machine Learning

Deep Learning

Machine Learning is a subset of AI

Deep Learning is a subset of Machine Learning

Deep Learning uses neural networks to simulate human like decision making
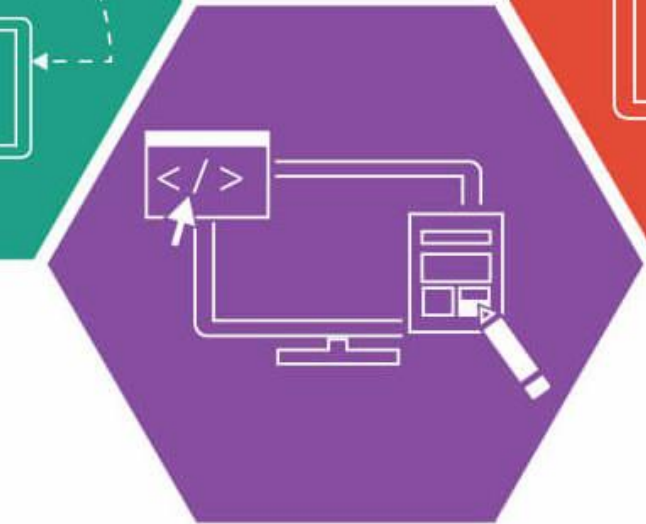
Types of Machine Learning

- Supervised Learning (Regression , Classification)

- Unsupervised Learning (Clustering, Association rule)

- Reinforcement Learning (Learns to react to environment, reward system)
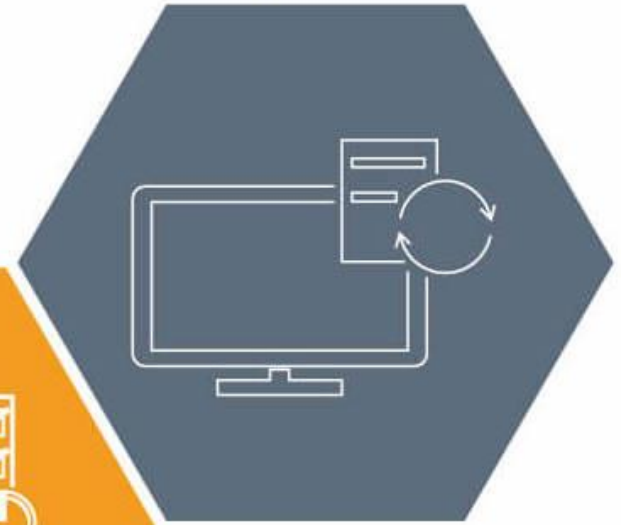
Get Data

1

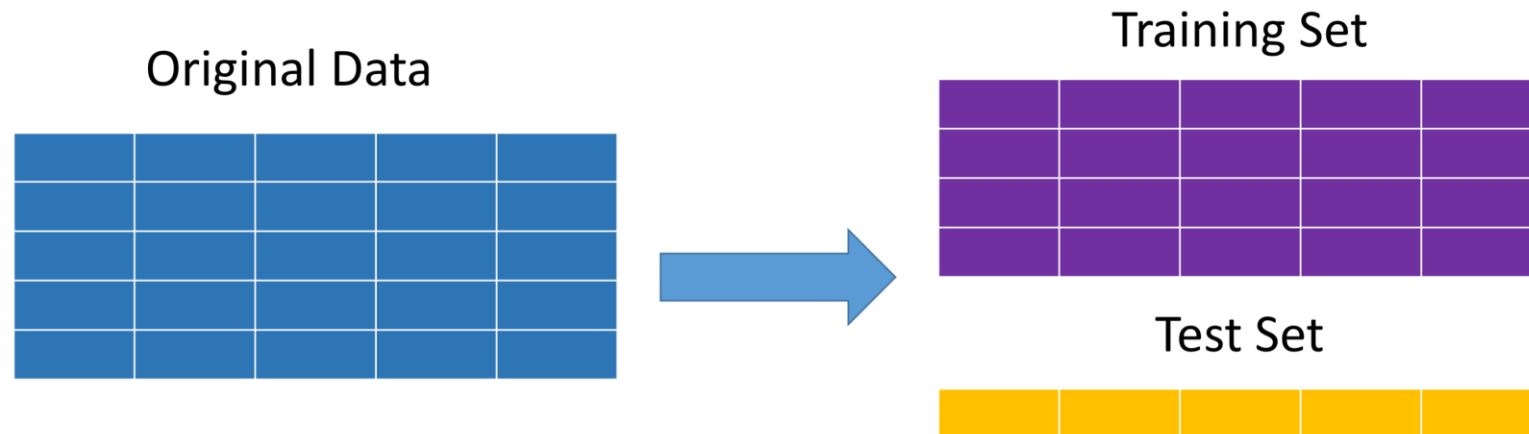# Clean, Prepare & Manipulate Data

2

Train Model

3

Test Data

4

Improve

5

Feature extraction and cleaning of data

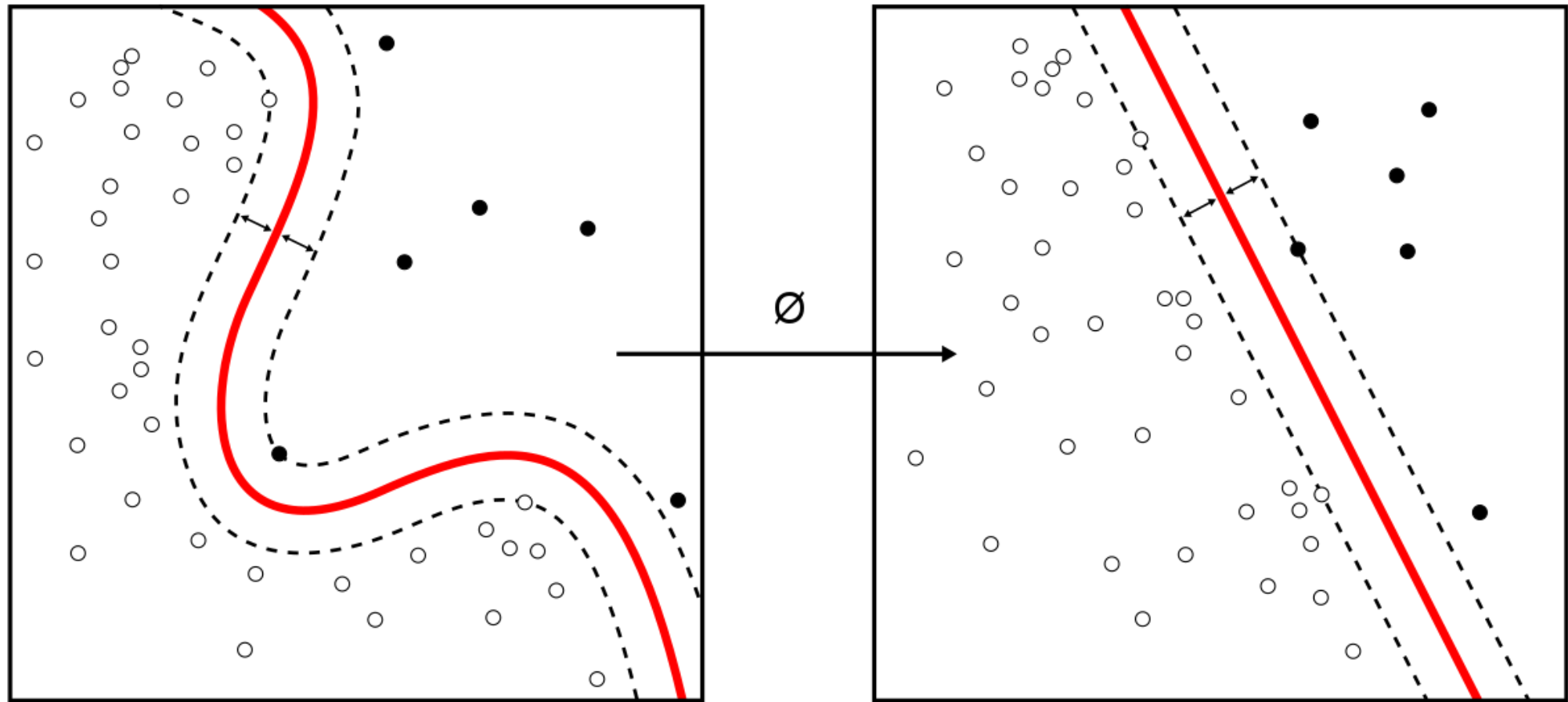# Train and test data
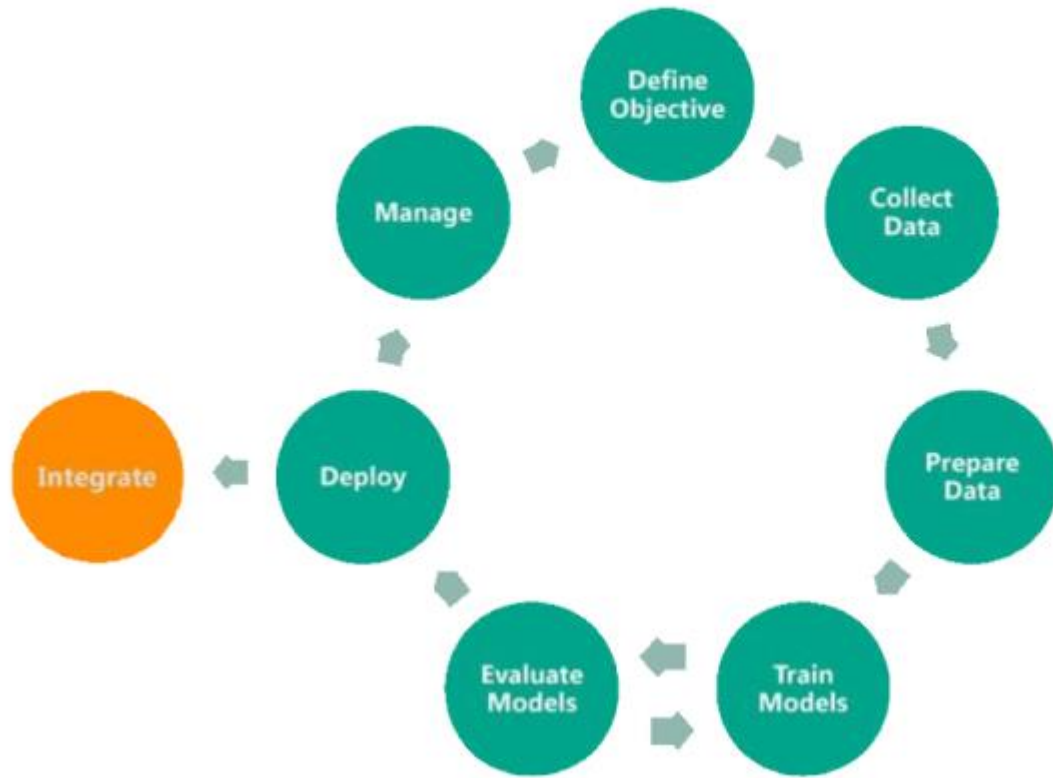
Original Data

Training Set

Test Set

Models

- Support Vector Machine

- Decision Tree

- Random Forest

Support Vector Machine

Machine learning lifecycle

Thank You