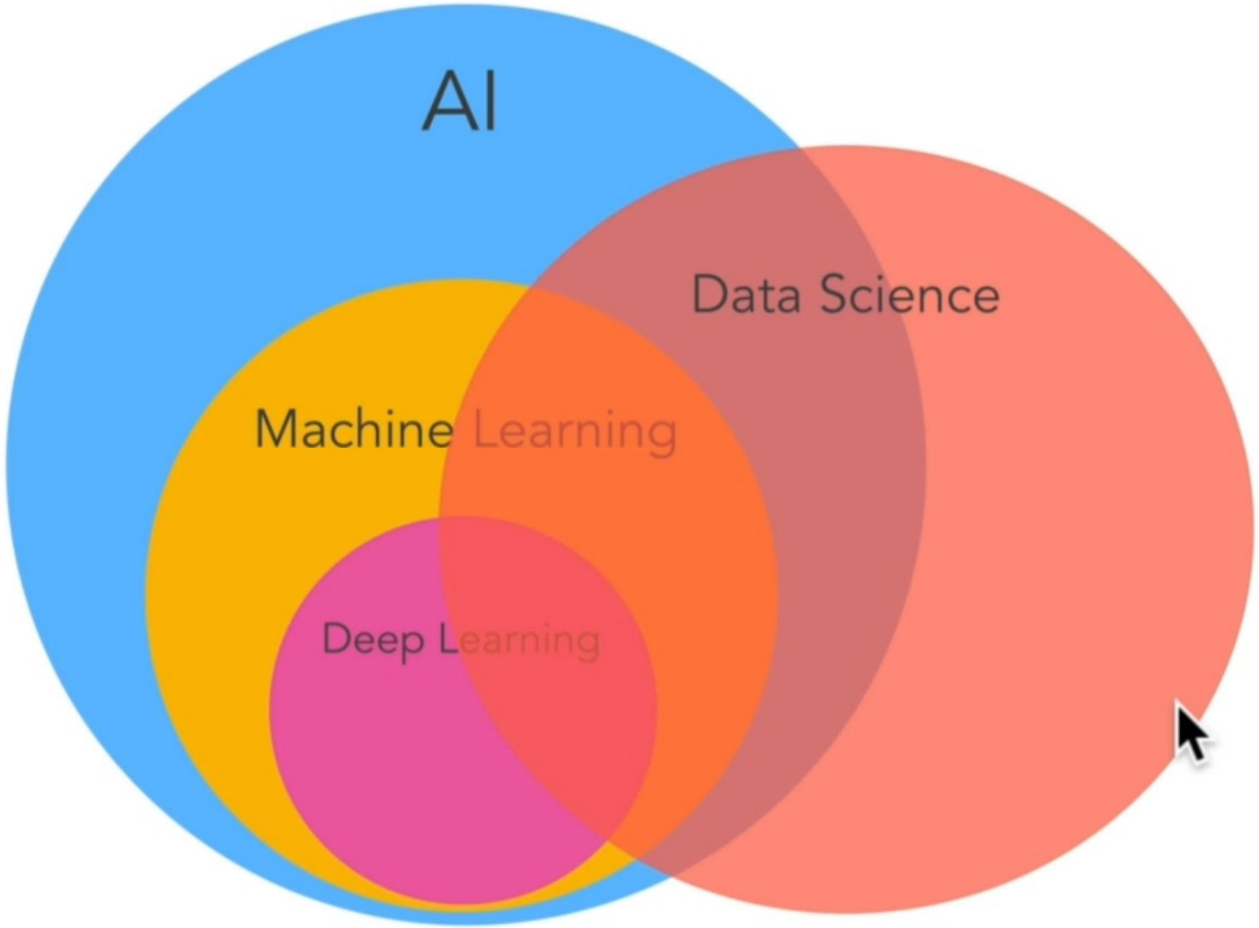
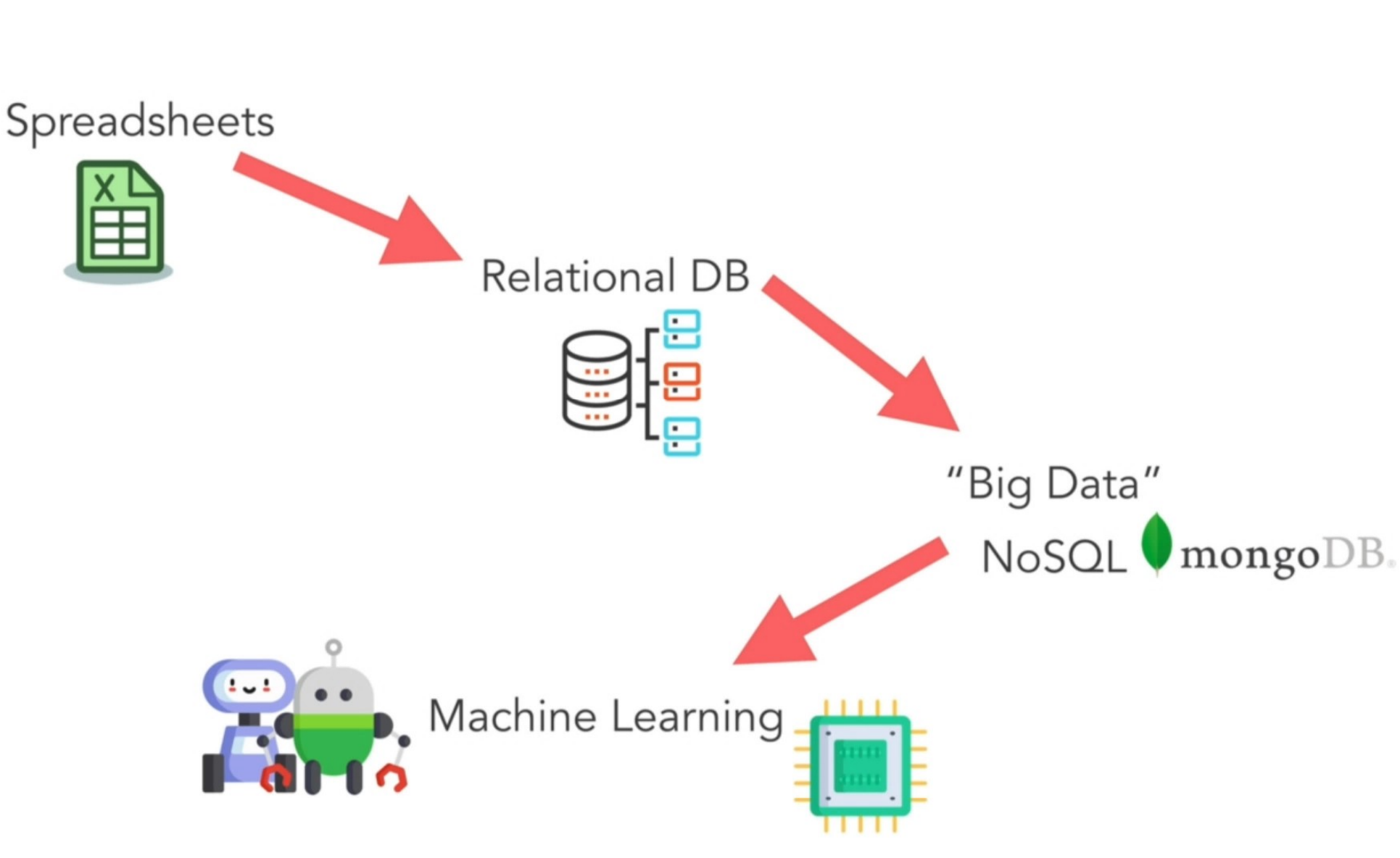
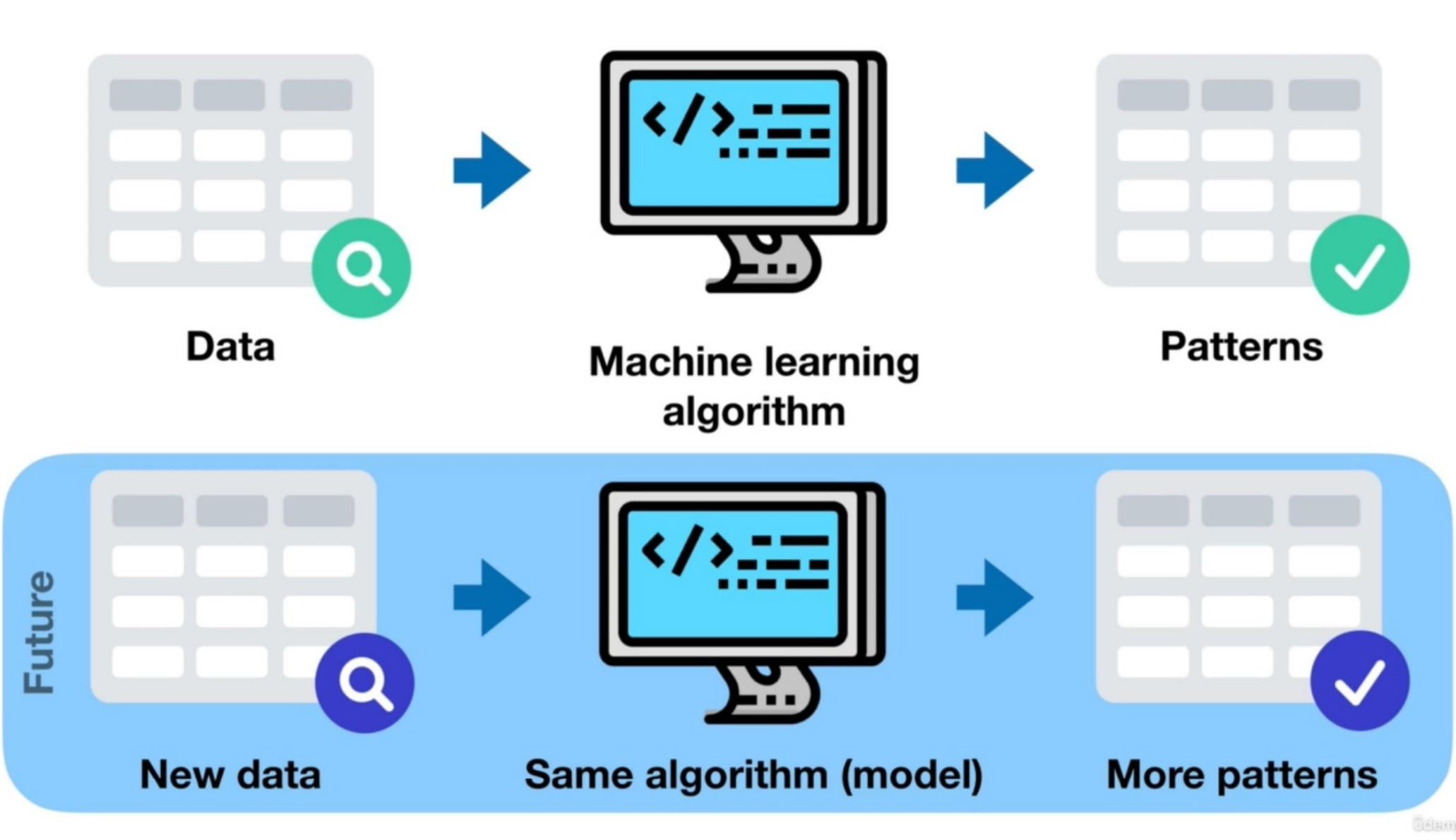

AI
Data Science
Machine Learning
Deep Learning


Spreadsheets
Relational DB
"Big Data"
NoSQL
mongoDB.
Machine Learning

Steps in a full machine learning project


Data
Machine learning algorithm
Patterns
Future
New data
Same algorithm (model)
More patterns

Normal algorithm

1. Cut vegetables
2. Season chicken
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

Starts with **Makes**

Machine learning algorithm

Inputs

Output

1. Cut vegetables
2. Season chicken
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

Starts with **Figures out**

Udemy

Attempt

1

1. Cut vegetables
2. Season chicken with lots of spice
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

2

1. Cut vegetables
2. Season chicken with extra spice
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

3

1. Cut vegetables
2. Season chicken a lil' extra spice
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

4

1. Cut vegetables
2. Season chicken
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

⋮

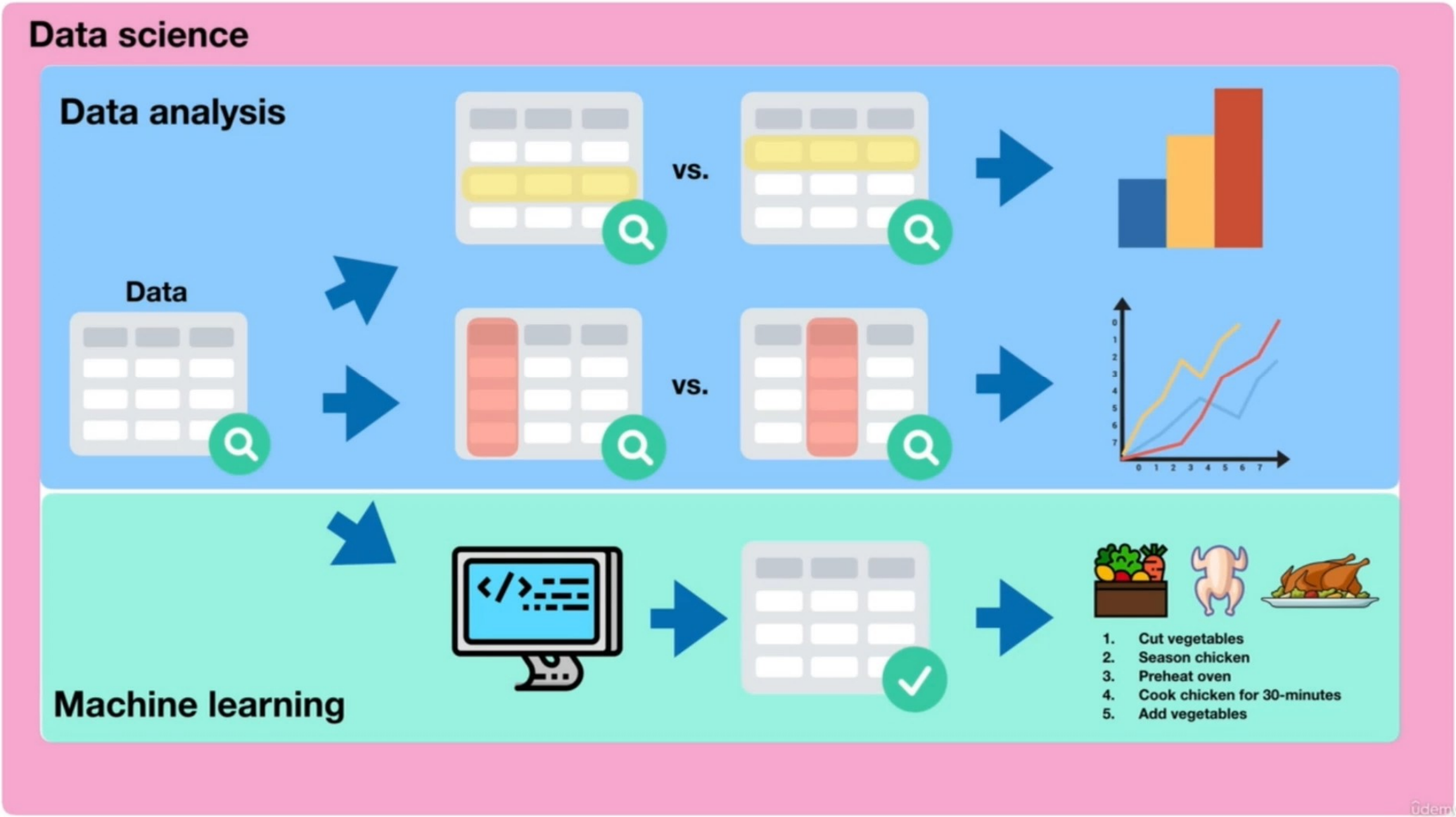
1. Cut vegetables
2. Season chicken
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

100

1. Cut vegetables
2. Season chicken
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables

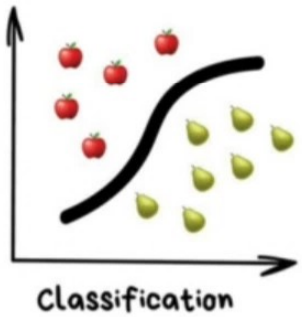
Machine learning algorithms may try 1000's of times to find the right instructions.

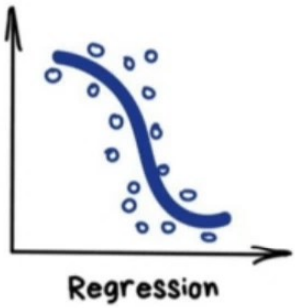
Udemy


Data science
Data analysis
vs.
Data
vs.
0 1 2 3 4 5 6 7
0 1 2 3 4 5 6 7
1. Cut vegetables
2. Season chicken
3. Preheat oven
4. Cook chicken for 30-minutes
5. Add vegetables
Machine learning

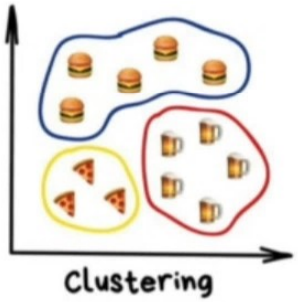
Machine Learning

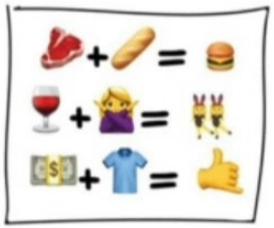
Supervised





Unsupervised





Reinforcement

Skill acquisition

Real time learning

Images: https://vas3k.com/blog/machine_learning