

# Types of Machine Learning Problem

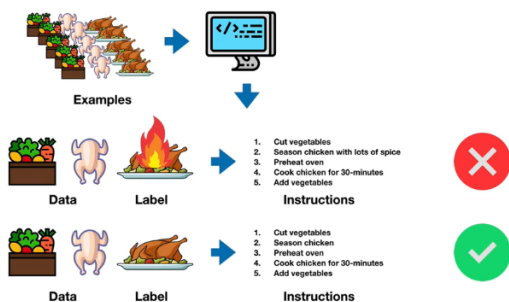
## ▼ How?

- Matching business problem with main types

## ▼ Supervised Learning



- When you have Data and Labels
- Supervised Learning Model use the Data to Label (when the label is wrong, also corrects itself and tries again)



## ▼ Types

### ▼ Classification



- Is this one thing or another?
- Binary Classification = two options
- Multi-class classification = More than 2 options

## ▼ Regression



- How much will this house sell for?
- How many people will buy this app?

## ▼ Unsupervised Learning



- Data with No Labels
- Customer with Sales info - finding Patterns



## ▼ Types

- Clustering

## ▼ Transfer Learning



## ▼ Leverages from one ML learning to another

- Take identifying Car algo and apply to identify doogs



## ▼ Reinforcement Learning



- Computer program performs some action in defined space and rewarding when done well and punish when not done well
- Chess



## ▼ When you shouldnt use ML

- Will a simple hand-coded instruction based system work? then Dont use ML

