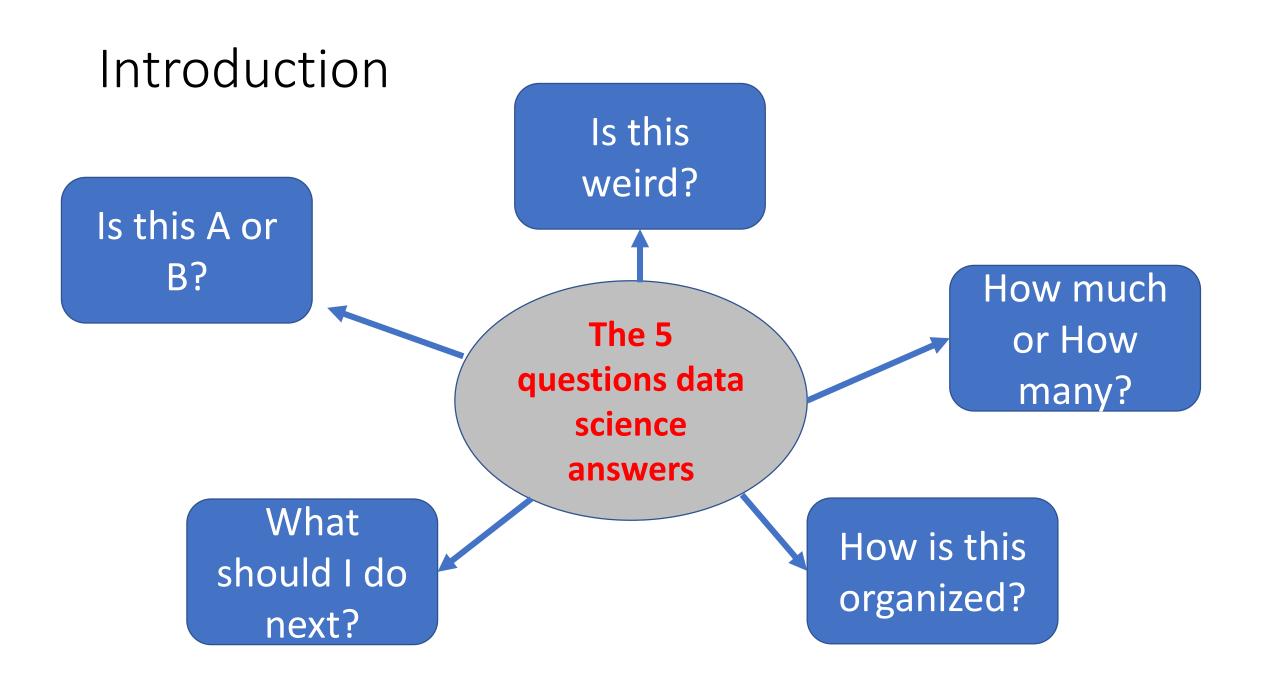
# Data Science

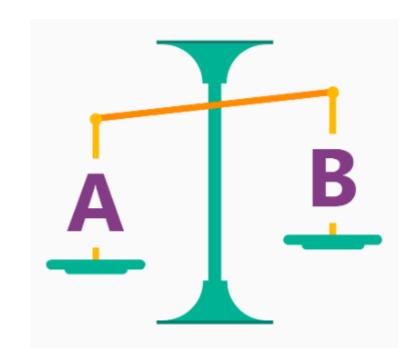
five questions

Nguyen Van Quan

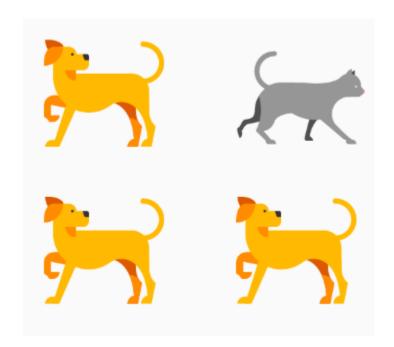


#### • Is this A or B? uses classification algorithms

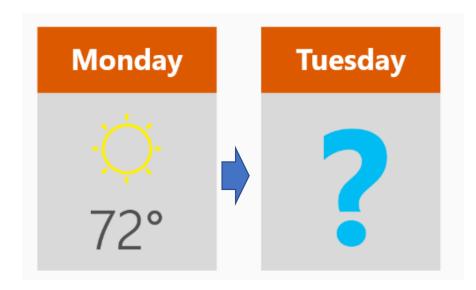
- This family of algorithm is called as binary classification
- It is useful for nay question that has just two possible answers (Yes/No; True/False)
- We can extend this problem to multiclassification



- Is this weird? This question is answered by a family of algorithms called anomaly detection.
- Anomaly detection flags unexpected or unusual event or behavior → where to look for problems



- How much? or How many? uses regression algorithms
  - Regression algorithms make numerical prediction
  - They help answer any question that ask for a number



- How is this organized? uses clustering algorithms
- Common example of clustering question are:
  - Which viewers like the same types of movies
  - Which printer models fail the same way
- By understanding how data is organized, you can better understand - and predict - behaviors and events

- What should I do now? uses reinforcement learning algorithms
- Question it answers are always about what actions should be taken? –usually by a machine or a robot
- Reinforcement learning machine algorithm gather data as they go, learning from trial and error

#### Reference

[1] https://docs.microsoft.com/en-in/azure/machine-learning/studio/data-science-for-beginners-the-5-questions-data-science-answers