



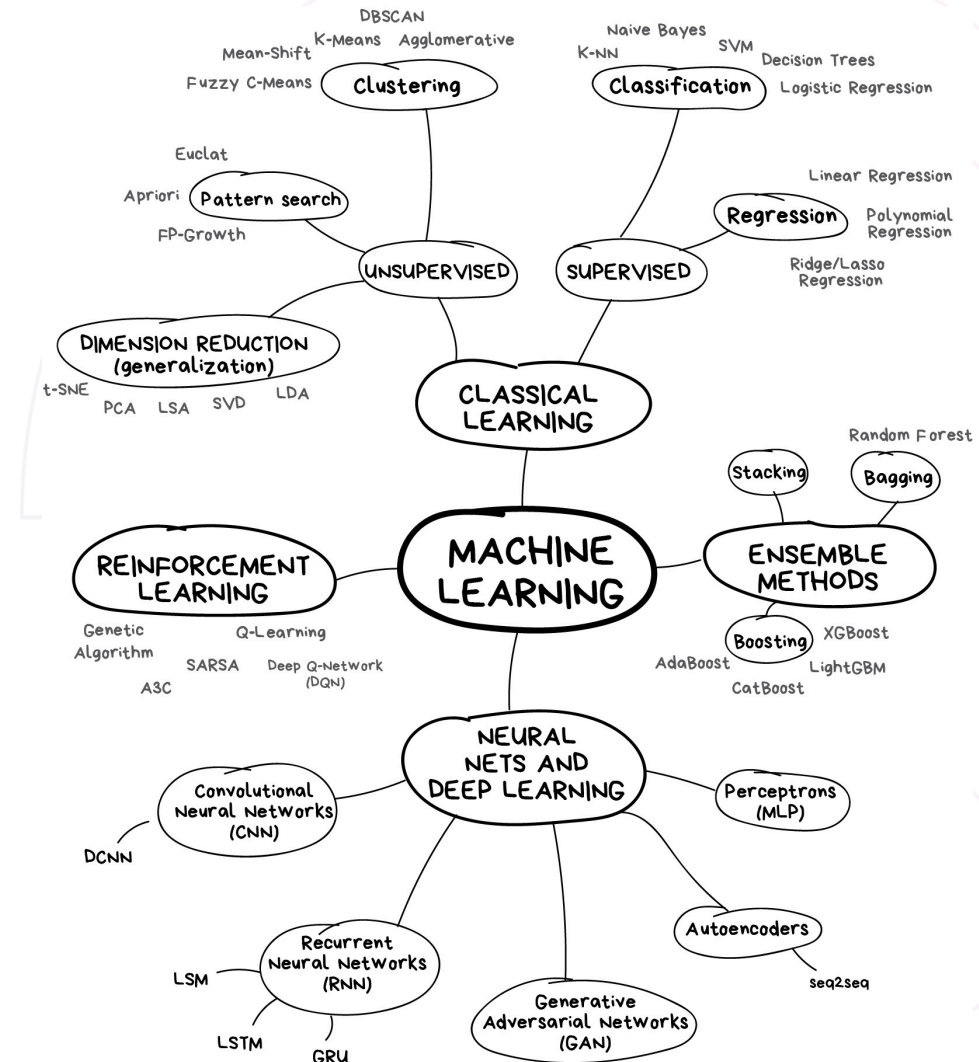
# 6 AI Algorithms



# Overview of algorithms

## vas3k – Machine Learning

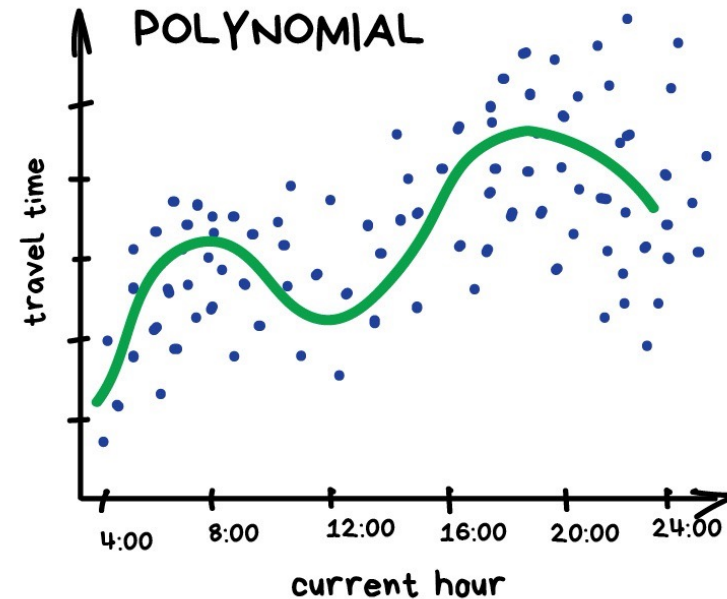
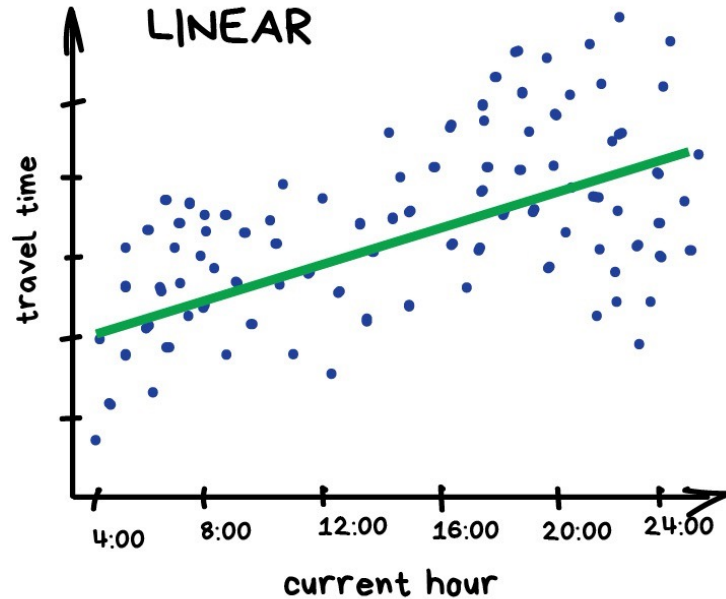
- Very interesting introductory blog on AI algorithms
- Pictures in this section taken from this blog (credits to vas3k)





# Linear or polynomial regression

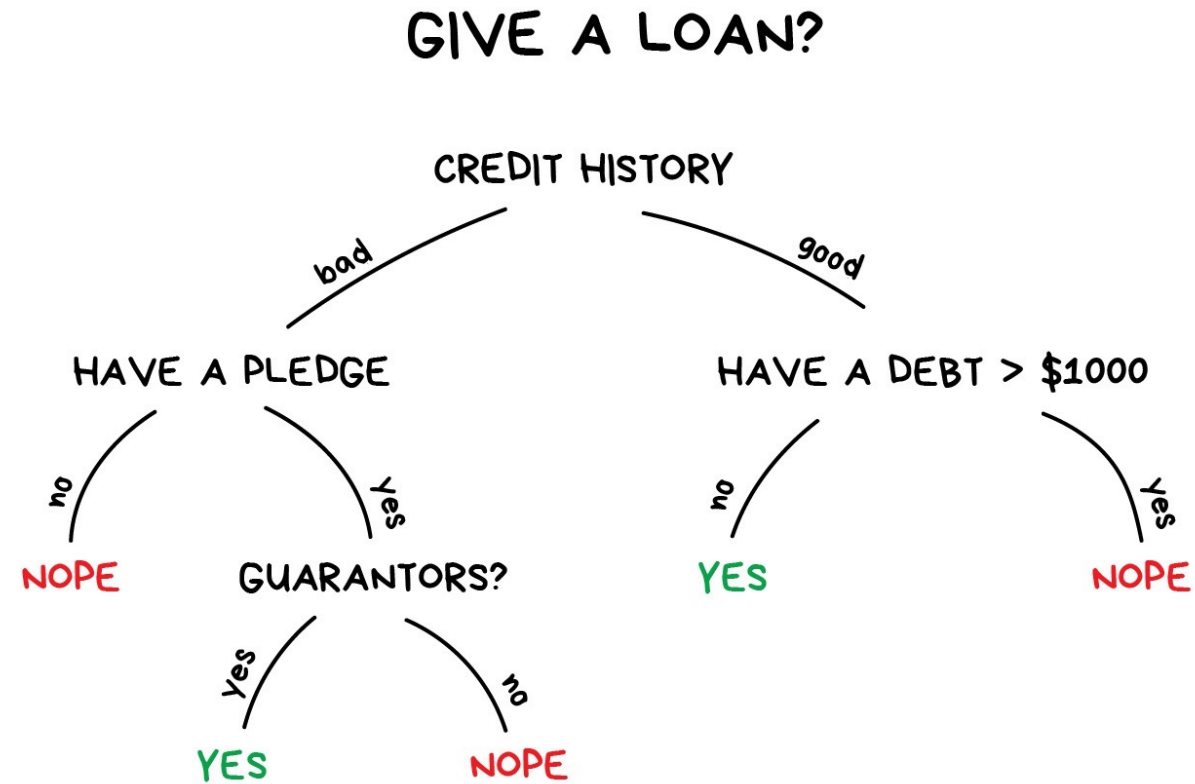
## PREDICT TRAFFIC JAMS



REGRESSION



# Decision tree

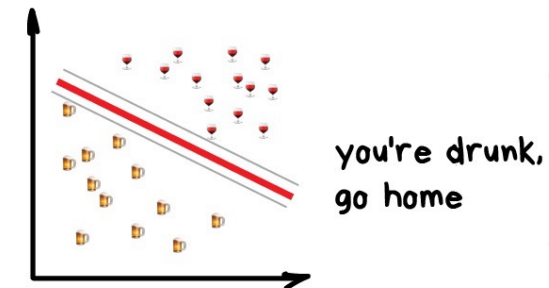
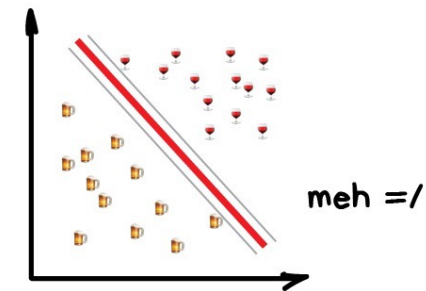
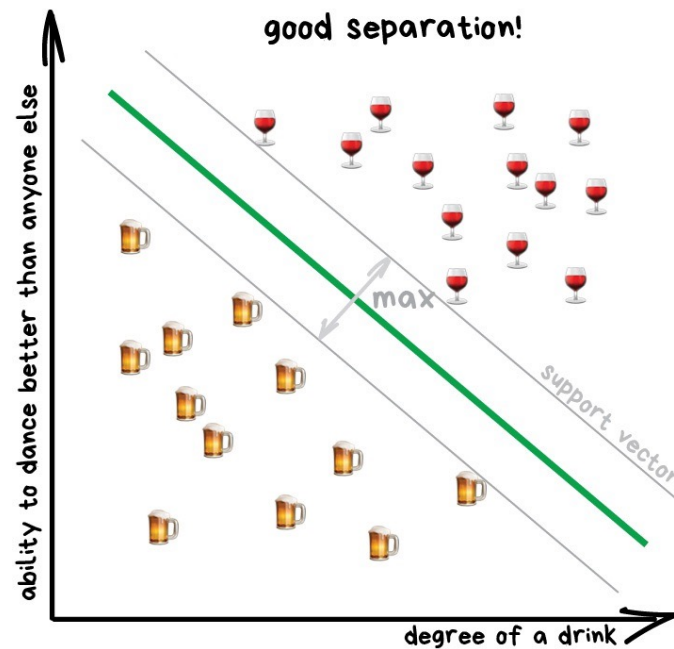


DECISION TREE



# Support vector machine

## SEPARATE TYPES OF ALCOHOL

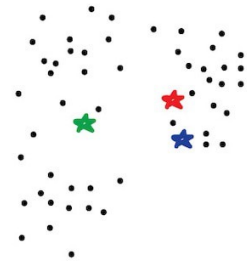


## SUPPORT VECTOR MACHINE

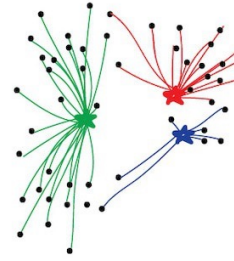


# K-means clustering

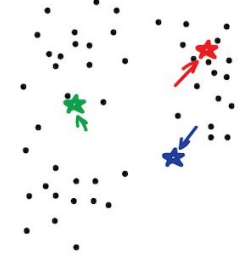
PUT KEBAB KIOSKS IN THE OPTIMAL WAY  
(also illustrating the K-means method)



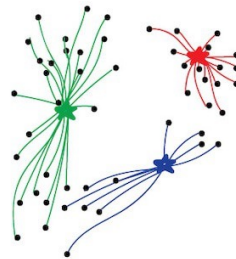
1. Put kebab kiosks in random places in city



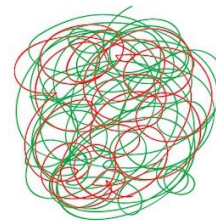
2. Watch how buyers choose the nearest one



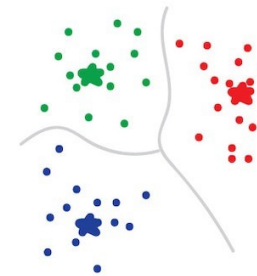
3. Move kiosks closer to the centers of their popularity



4. Watch and move again



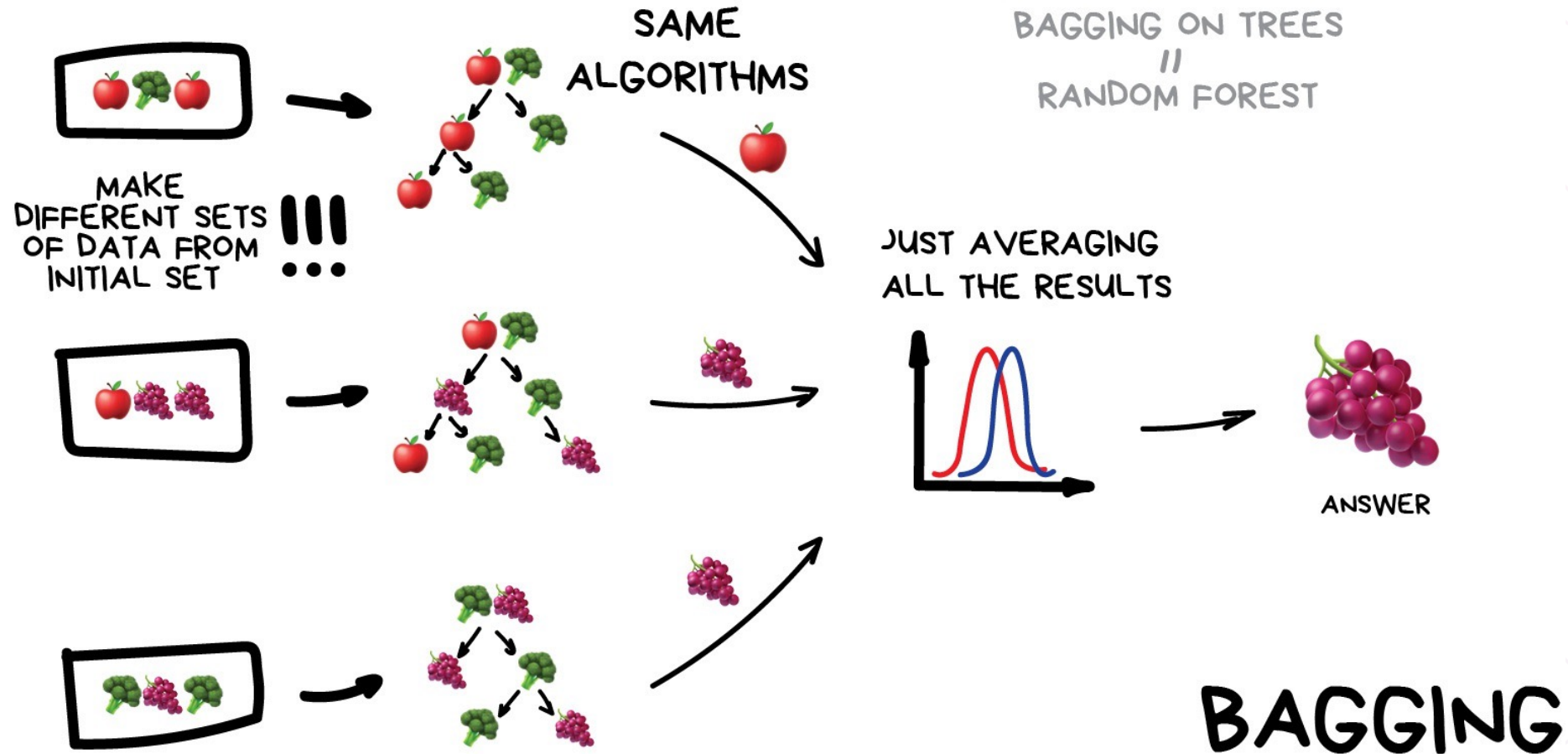
5. Repeat a million times



6. Done!  
You're god of kebabs!



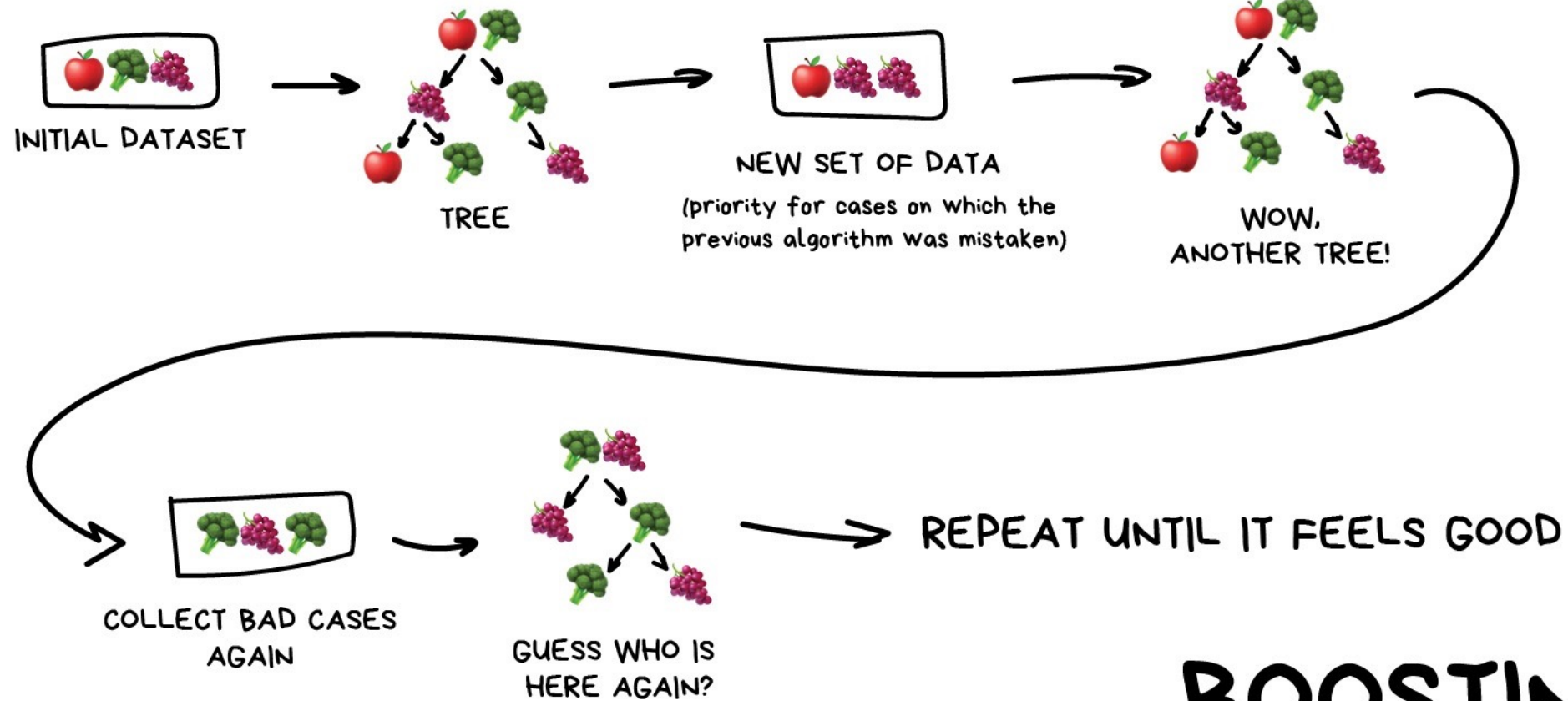
# Bagged ensemble







# Boosted ensemble

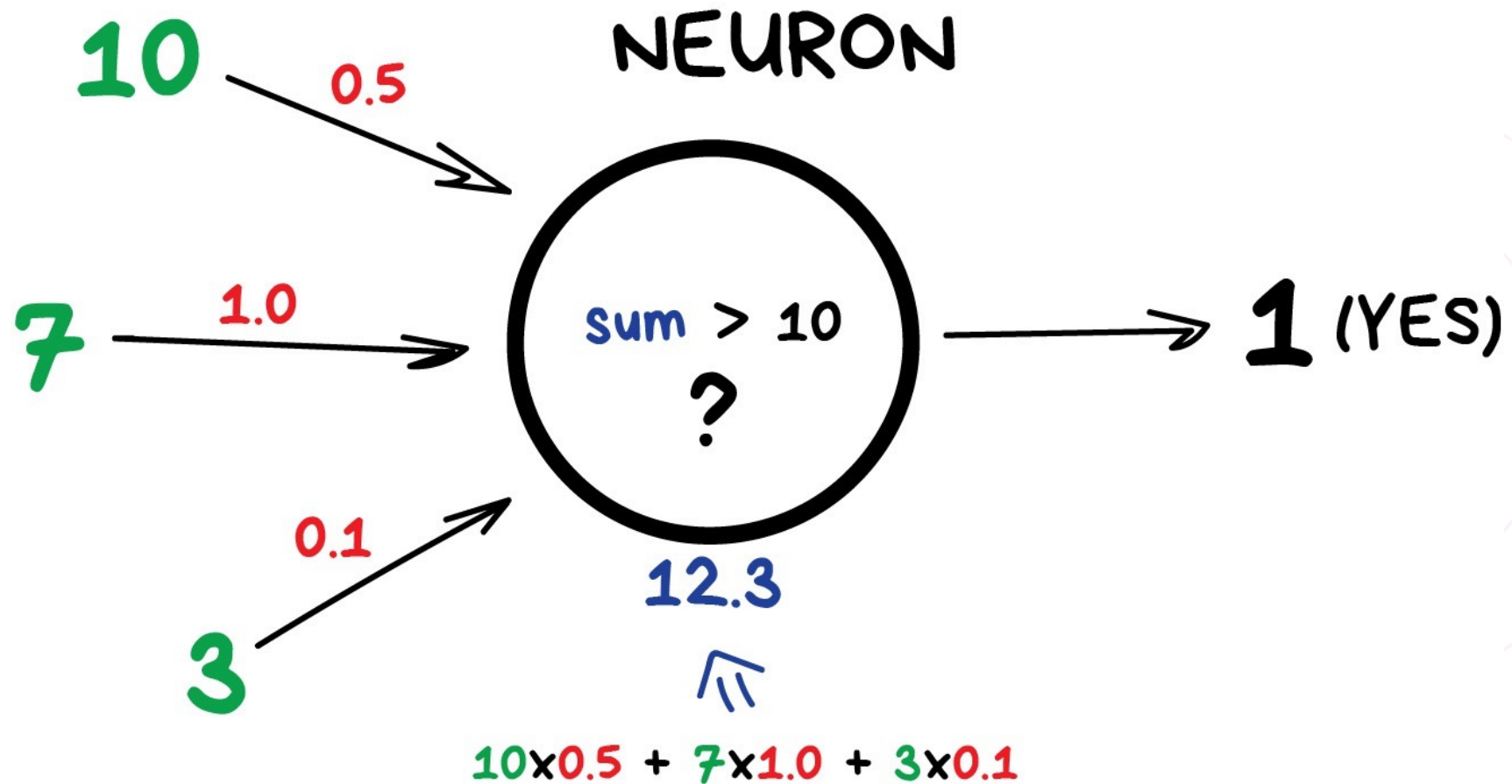


# BOOSTING



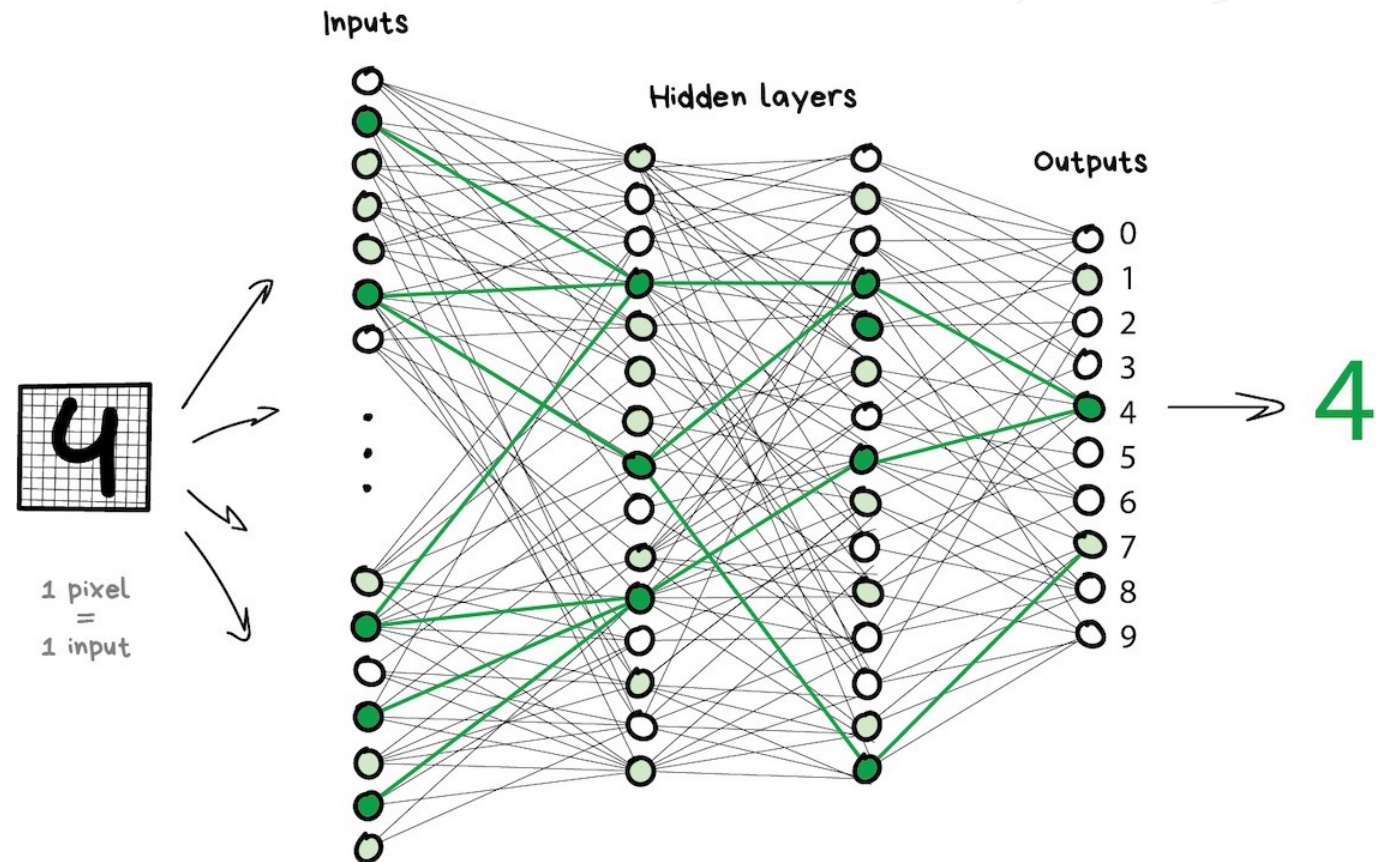


# Perceptron





# Neural network



MULTILAYER PERCEPTRON (MLP)