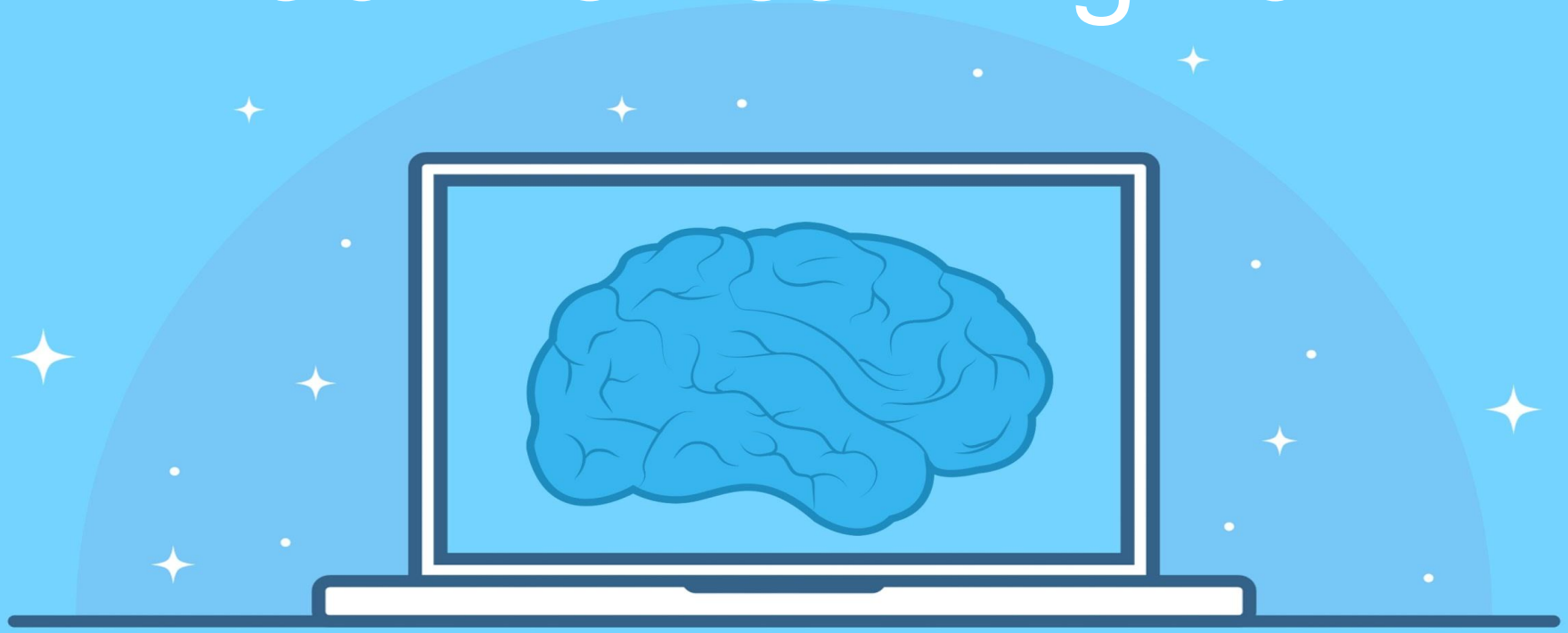
Machine Learning 404



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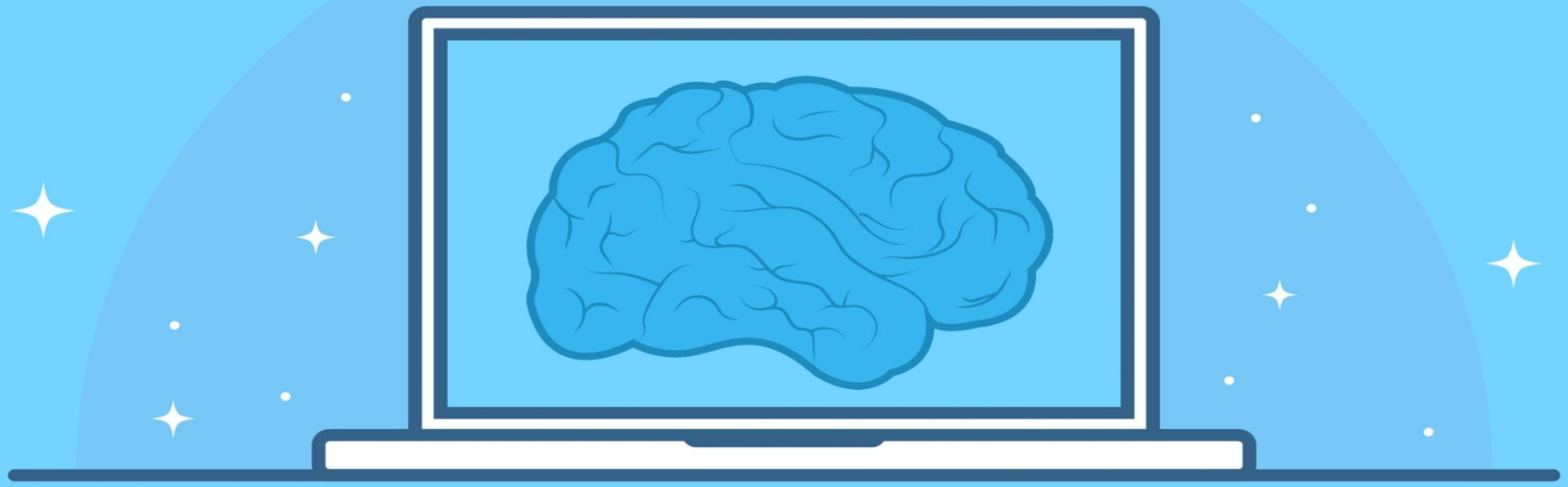
What we will do

1. What is Machine Learning?
2. Why ML?
3. What are the advantages and Opportunities?
4. What are some of the challenges?
5. How do we overcome them?

1. What are some Popular Algorithms
2. How do you improve your models?
3. Deep Learning

What & Why Machine Learning?



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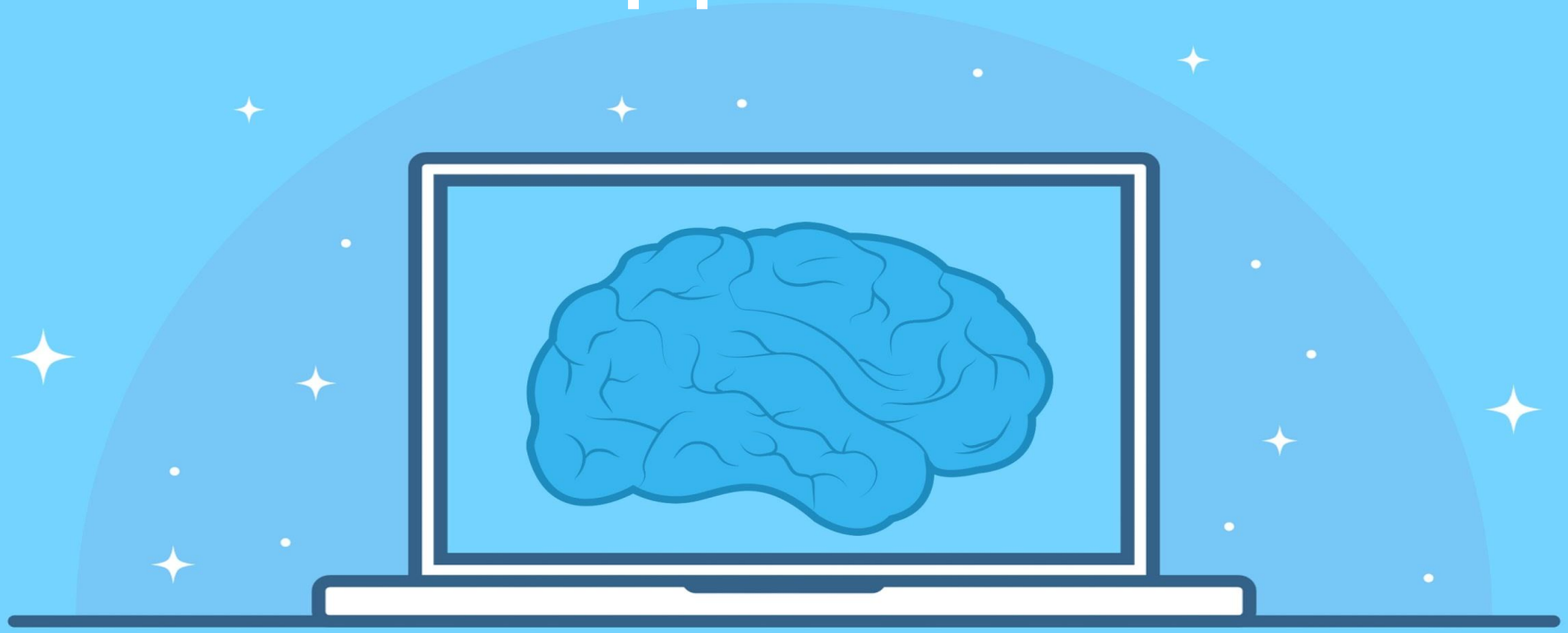
The Opportunities



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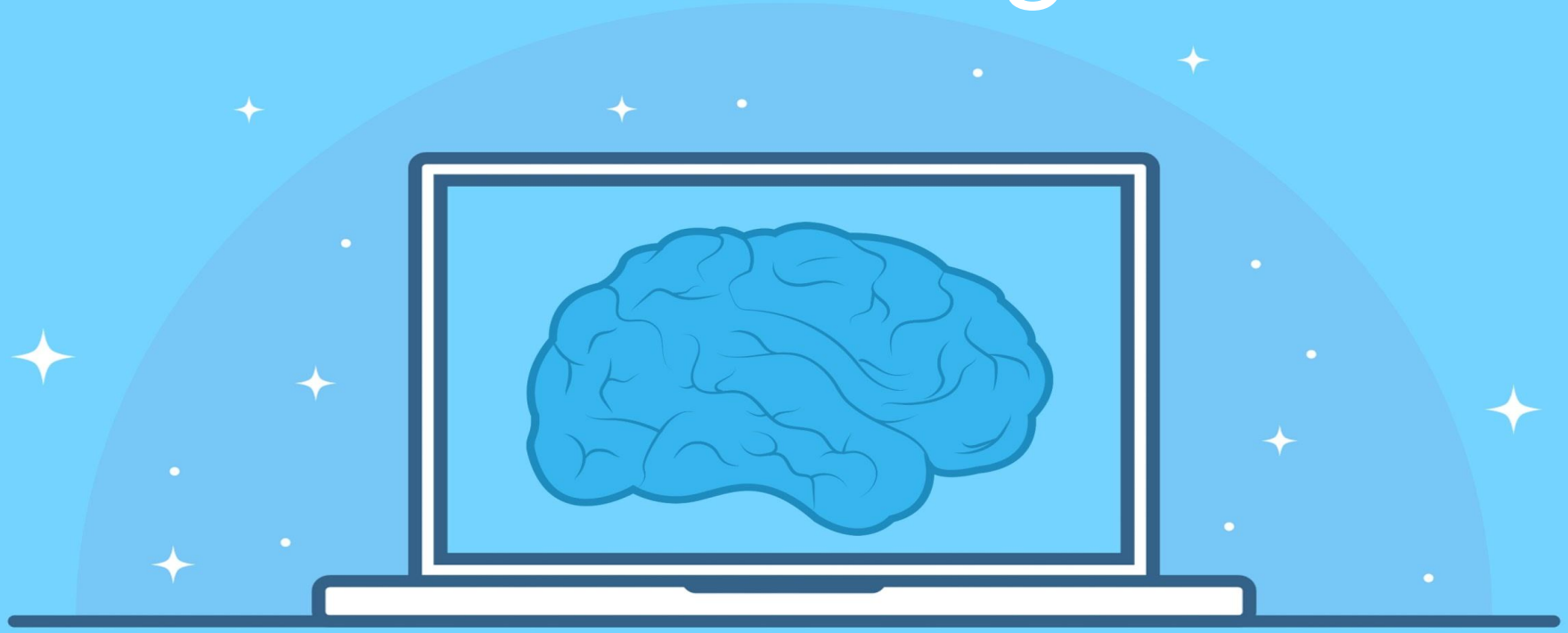
The Challenges



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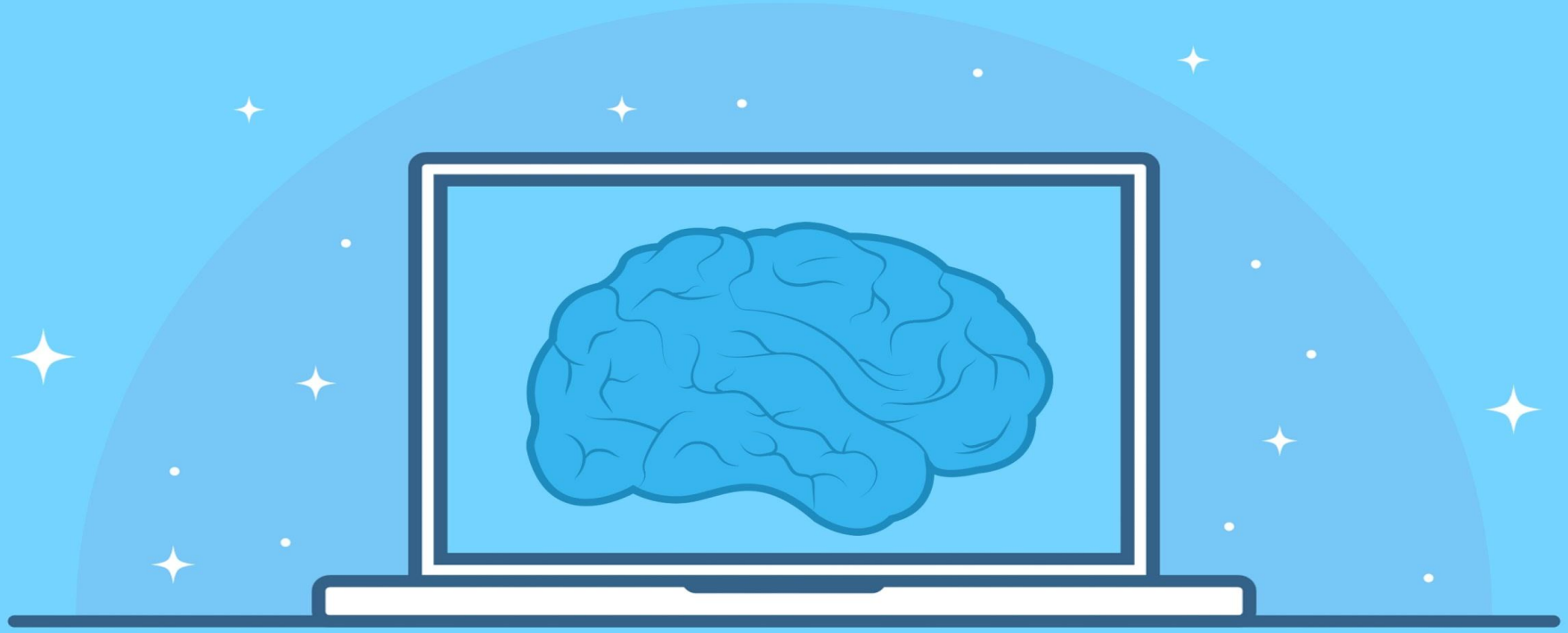
The Solutions



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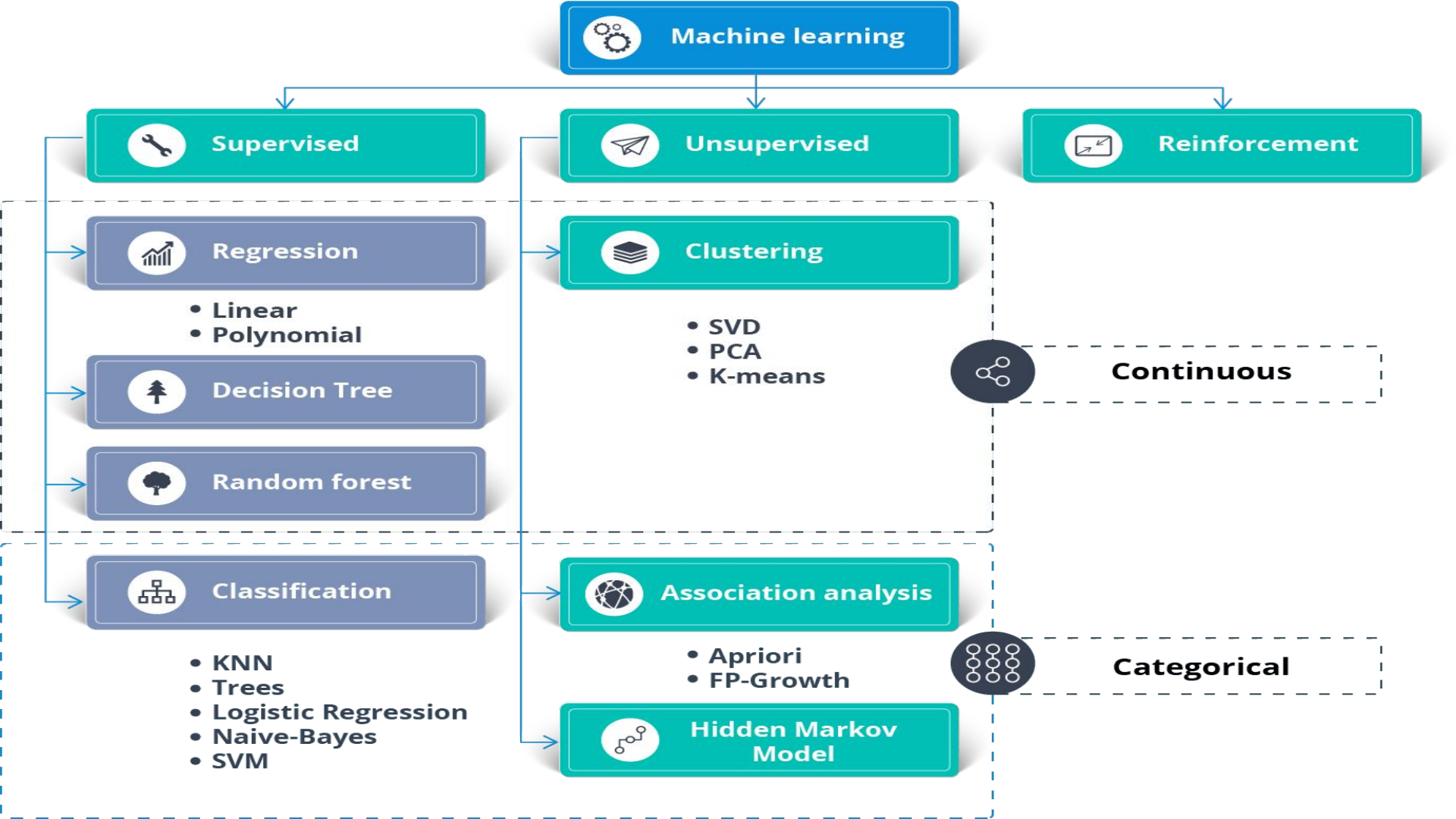
Machine learning
Supervised
Unsupervised
Reinforcement
Regression
Linear
Polynomial
Decision Tree
Random forest
Clustering
SVD
PCA
K-means
Continuous
Classification
KNN
Trees
Logistic Regression
Naive-Bayes
SVM
Association analysis
Apriori
FP-Growth
Hidden Markov Model
Categorical

Linear Regression

Show relationship between an independent variable and a dependent variable

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Logistic Regression

Show the probability of an input belonging to a specific class

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Support Vector Machine

Find a line that best separate two or more classes

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K-Nearest Neighbor

k= n represent n closest points in the data. The majority class wins

Naive Bayes

It uses the Bayes' Theorem, which assumes that features are statistically independent. The theory assumption that input variables are independent of each other, i.e. there is no way to know anything about other variables when given an additional variable.

Decision Tree

Identifies ways to split a data set based on different conditions.

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Random Forest

They are made of many decision trees. Each decision tree created by using a subset of the attributes used to classify a given population

Clustering

Find inherent groupings within data

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Deep Learning

Deep learning is an artificial intelligence function that mimics the workings of the human brain in processing data and creating patterns for use in decision making.

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thank you
danke
рахмат
謝謝
ngiyabonga
شكراً جزيلاً
Баярлалаа
спасибо
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