
Introduction to Machine Learning

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Introduction



Myself

Graduate from the Department of
Computer Science and Engineering,
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Research Assistant in the same
department

Published author

Research Fields: Deep Neural
Models and Reinforcement
Learning



Exercise

iris setosa



petal

sepal

iris versicolor



petal

sepal

iris virginica



petal

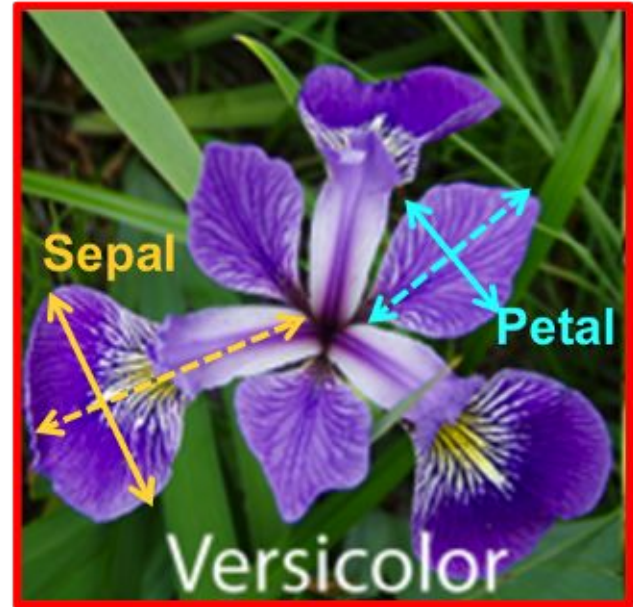
sepal

Steps in solving a ML problem

1. Preprocessing data
 2. Selecting the proper machine learning model
 3. Train and test set split
 4. Training the model
 5. Testing the model
 6. Deploying the model
-

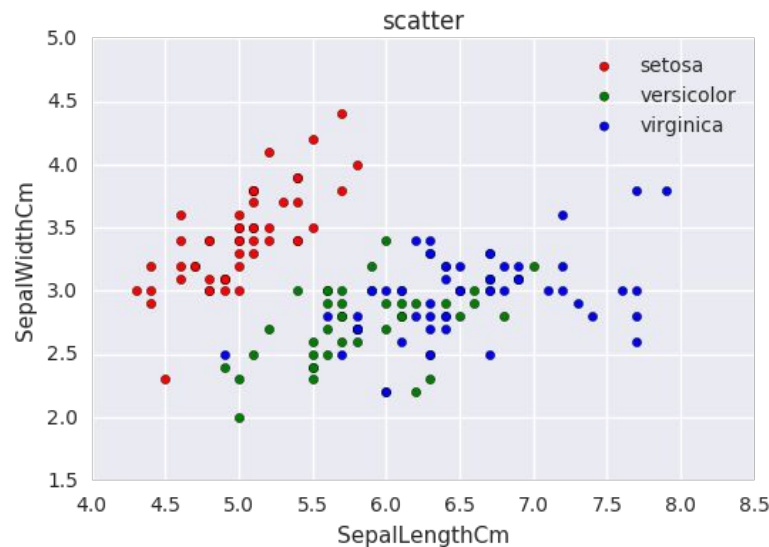
Selecting the proper machine learning model

Data Visualization



Selecting the proper machine learning model

Data Visualization



Selecting the proper machine learning model

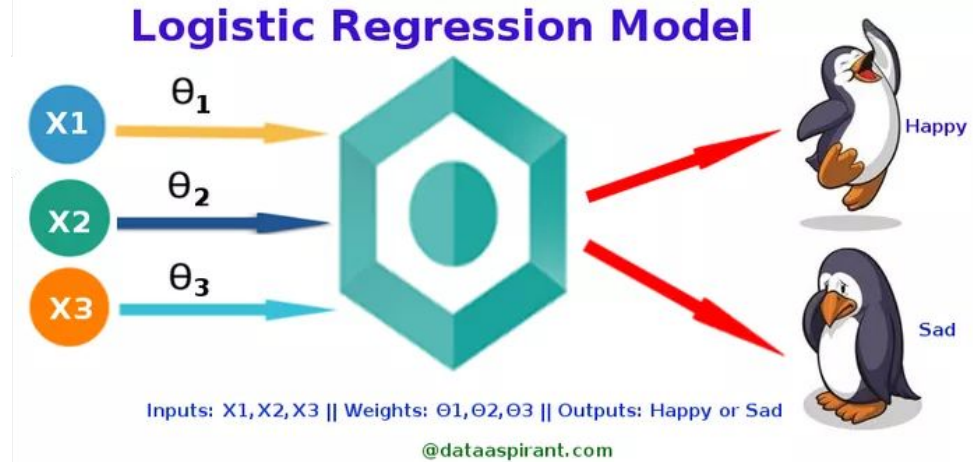
Data Visualization

Exercise:

Produce 2 similar plots selecting 2 different combinations from the features

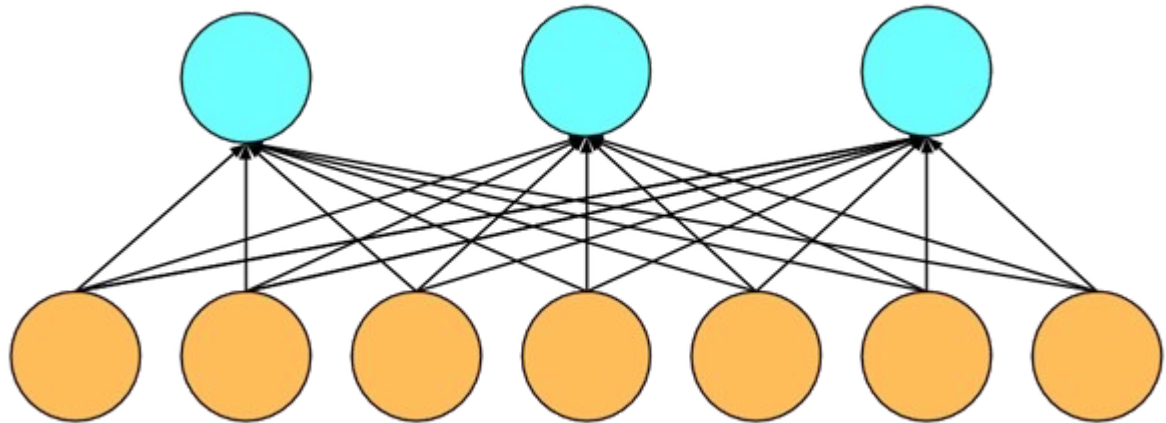
Logistic Regression

Binary Classification



Logistic Regression

Multinomial Classification



Schedule

1st Mini Project

2nd Mini Project

3rd Mini Project

16.11.2019

16.01.2020

18.01.2020

18.03.2020

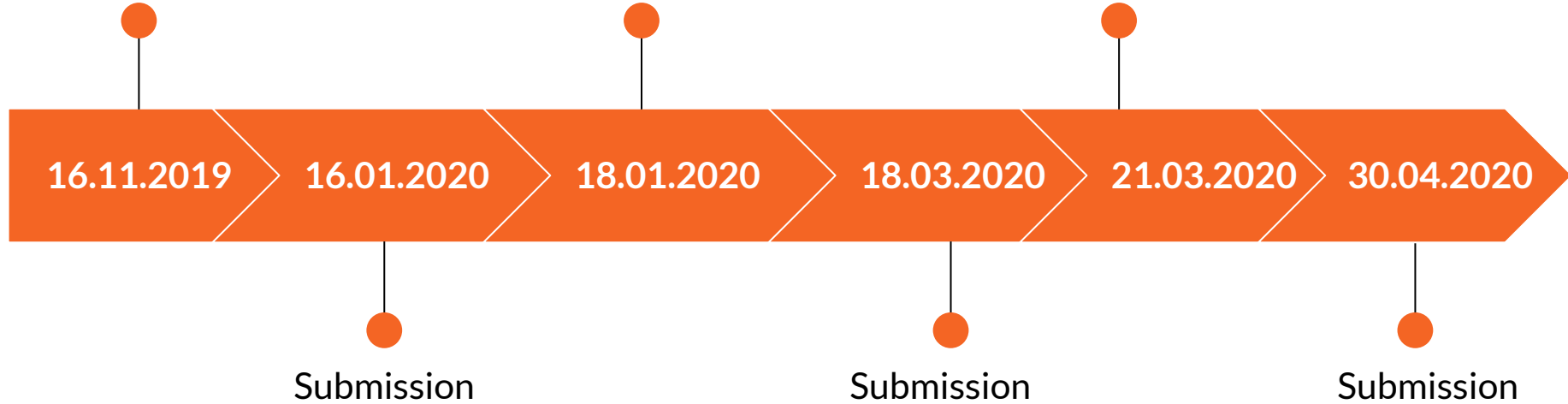
21.03.2020

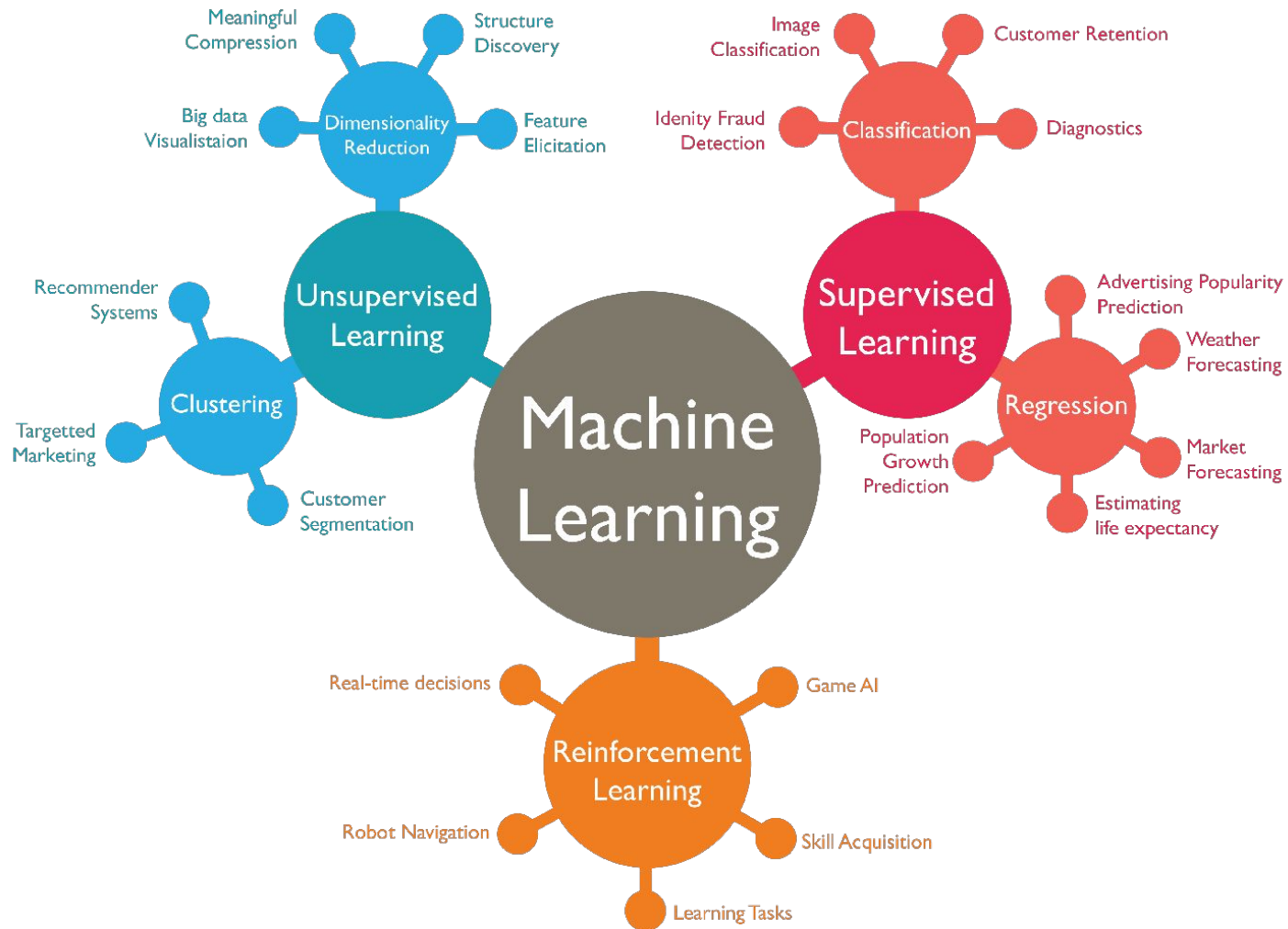
30.04.2020

Submission

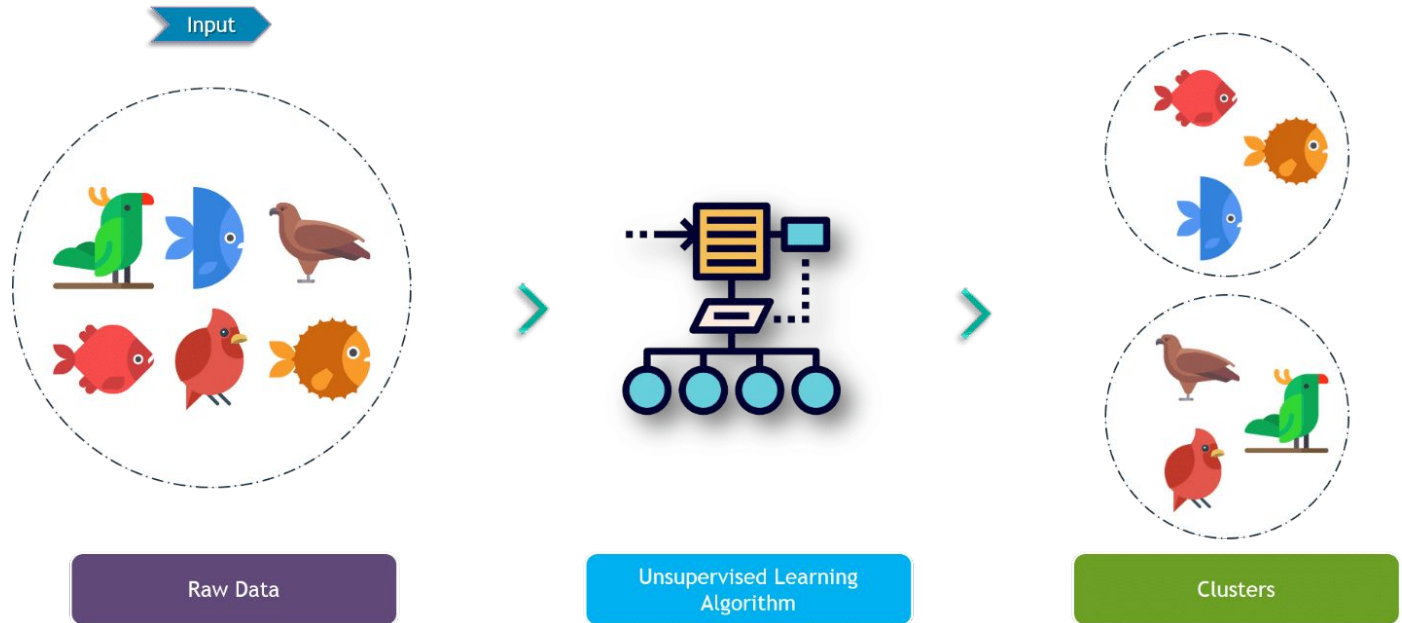
Submission

Submission



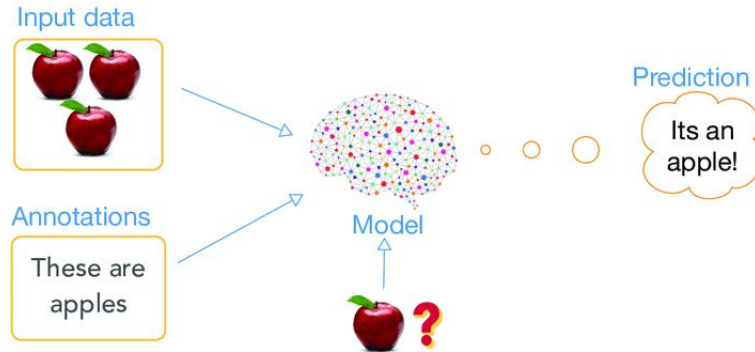


Unsupervised Learning

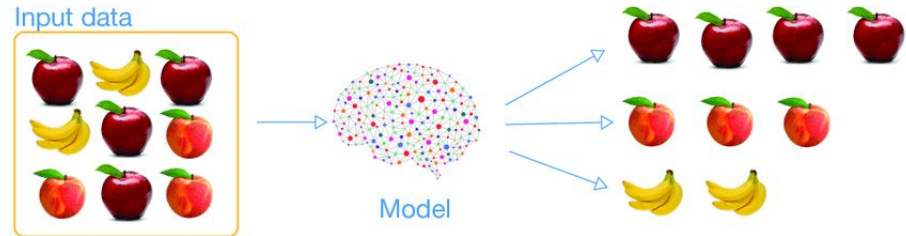


Supervised Learning

supervised learning



unsupervised learning



Reinforcement Learning

