IBM Cloud Pak for Data

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## Final Assignment 4

Language

Last updated

Python 3.9

Jun 7, 2022, 2:25 AM



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## **Classification with Python**

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In this notebook we try to practice all the classification algorithms that we have learned in this course.

We load a dataset using Pandas library, and apply the following algorithms, and find the best one for this specific dataset by accuracy evaluation methods.

Let's first load required libraries:

```
In [1]: import itertools
import numpy as np
import matplotlib.pyplot as plt
from matplotlib.ticker import NullFormatter
import pandas as pd
import numpy as np
import matplotlib.ticker as ticker
from sklearn import preprocessing
%matplotlib inline
```

## **About dataset**

This dataset is about past loans. The **Loan\_train.csv** data set includes details of 346 customers whose loan are already paid off or defaulted. It includes following fields:

Field Description