**Faculty of computers and artificial intelligence**

Selected 1

Team ID: (49)

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a) General information of dataset .

b) Ann details and curves

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| a) General information of dataset  b) Logistic regression details and curves |
| c) Svm details and curves |
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**1.General information:**

* **Image Dataset**

Name : Plant Pathology 2020 – FGVC7

Number of classes : 4 classes

Labels : healthy – rust – scap – multible disease

Total number of sambles used :3642

Size of sambles :2048\*1365

Train sambles :1457

Test sambles :1821

Validation sambles :364

* **Numerical Dataset**

## Name :Churn Modelling

Number of rows : 10000

Number of column : 10

**2.Implementation details:**

**Artificial neural network:**

Number of features extracted :1821 \*256 \* 256\*3= 358,023,168

Names of features : keypoints – descriptors of edges in the image

Hyperparameters :

Learning rate :0.0001

Optimizer :adam

Regularization :L2Regularization (.005)

Batch size :64  
 Epochs :85

Chart, line chart

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Chart, line chart

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Chart

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Chart, line chart

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**Support vector machine (numerical):**

Number of features extracted : 10000 rows x 10 columns

Hyperparameters :

kernel='rbf'

C =10

degree= 3

coef0= 0.001

gamma= ‘auto’

Chart, treemap chart

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A picture containing chart

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**Support vector machine (image):**

Number of features extracted :1821 \*100 \* 100\*3= 358,023,168

Names of features : keypoints – of edges in the image

Hyperparameters :

kernel='rbf’

C =1

gamma= 1

Chart, line chart

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**Logisitic regration:**

Number of features extracted : 10000 rows x 10 columns

Hyperparameters :

penalty='l1'

solver=” ”

C=1

n\_jobs=None

max\_iter=1000

Chart, line chart

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Chart, line chart

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**Link github:**

https://github.com/AhmedShawky007/selected