College name : Computer science and artificial intelligence

Course name : Selected CS-2

Team number : 55

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| --- | --- |
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| ستيف عادل فاروق حبيب | 201900337 |
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(Paper Details)

- Paper Name : OBJECT DETECTION USING CNN

- Publishers Name : Ms.Gunasundari , Lokesh , Gopirengaraj

-Year Of Publication : 2 April 2018

-The Implemented Algorithm : Convolution Neural Network (CNN) , Deep learning algorithm

- The Results : After implementation , a highest accuracy 98% has been gained using Kaggle dataset

(Project Description Document)

1) General Information on the selected dataset

- Name of the dataset used: American Sign Language

- The link of dataset: <https://www.kaggle.com/datasets/kapillondhe/american-sign-language>

- The total number of samples in the dataset : 121,608 samples

- Dimension of images (150 , 150)

- Number of classes & their labels : 27 classes with labels (from a to z and space sign)

- The ratio used for training, validation, and testing : Training (90% of the training dataset) = 97,200 images Validation (10 % of the training dataset) = 10,800 images ,

Testing (100% of the testing dataset) = 13608 images

2) Implementation details:

Graphical user interface, text, application

Description automatically generated-The hyperparameters used in the model

- model summery

Table

Description automatically generated

Table

Description automatically generated- running epochs details

3) Results details:

- The Accuracy : 99.29%

Chart, line chart

Description automatically generated

- The loss : 1.88%

Chart, line chart

Description automatically generated

A picture containing text

Description automatically generated- The Confusion Matrix