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| --- | --- |
| Names | ID |
| آلاء رضا عبدالحميد متولي | 202000140 |
| آية هاني قاسم توفيق | 202000190 |
| روان سعودى صلاح أحمد | 202000332 |
| سارة سامح أبوبكر عبد الباسط | 202000369 |
| ميار أحمد السيد | 202000965 |
| هدى حامد مصطفى | 202001029 |

**Paper details**

**Authors names:** Lamis F. Samhan, Amjad H. Alfarra, Samy S. Abu-Naser, Ismail A.Amassi

**Paper’s name:** Classification of Alzheimer's Disease Using Convolutional Neural Networks

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**Dataset Used:** Alzheimer MRI Preprocessed Dataset (Kaggle)

<https://www.kaggle.com/datasets/sachinkumar413/alzheimer-mri-dataset>

**Implemented Algorithm:** vgg16

**It’s results:**

***General Information on the selected dataset:***

**Dataset Name:** Alzheimer MRI Preprocessed Dataset (Kaggle)

***Dataset URL:*** <https://www.kaggle.com/datasets/sachinkumar413/alzheimer-mri-dataset>

***No. Of samples used:*** *The dataset consists of 6400 MRI images*

***The dimension of the images:*** *128\*128*

***No. Of classes****: 4 classes*

*Class1: Mild Demented (896 images).*

*Class2: Moderate Demented (64 images).*

*Class3: Non Demented (3200 images).*

*Class4: Very Mild Demented (2240 images).*

***Implementation details:***

***The ratio of training and No. Of images:*** *70% (4480 images).*

***The ratio of testing and No. Of images:*** *30% (1920 images).*

***Block Diagram:***

A screenshot of a computer

Description automatically generated

***Hyperparameters:*** *Activation function (Softmax, relu)*

*Optimizers:ADAM (Learning rate 0.001)*

*Batch size: 64 batch*

*No. Of Epochs: 10 Epoch*

***Results details:***