

CSE541 Computer Vision

Weekly Report

Section-1

Submitted to faculty: Prof. Mehul Raval

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Student Details

| Roll No. | Name of the Student | Name of the Program |
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**Tasks Performed in the week:**

* We learnt how to construct a neural network by building layers of different types in it.
* We learnt how to prepare training data well before fitting it into the model.
* We got to know about different methods of Data Augmentation.
* We studied about the concepts of Transfer Learning
* We studied the Facenet inception model and got a fair understanding of how the model works, what are the layers built within, etc.

**Outcome of the tasks performed:**

* For practice purposes, we were able to perform a simple hands-on for handwritten digit recognition based on the MNIST dataset.

**Tasks to be performed in the upcoming week:**

* Further we will study more on different CNN’s layers that are BatchNormalization, Zeropadding, MaxPooling2D, Lambda, Conv2D and specifically for Activation Function.
* After this using all these functions we will try to implement our own model based on Facenet Inception model to detect the faces.