

Progress Report

This report summarizes the development in the project during 5th Week (10/07/22-17/07/22)

Tasks	Date	Remarks
1. Read the paper on Pixel-NeRF 2. Read the paper on NeRF-ID (ongoing) 3. Read the paper on NeRF (ongoing)	10/07/2022 - still going on	1st paper is completed. Remaining 2 papers are yet to be completed.
1. Tested the existing NeRF algorithm for generating neural radiance fields.	11/07/2022	Tested the algorithm successfully.
1. Tested the algorithm with lfff synthetic dataset.	15/07/2022 - 16/07/2022	Tested the algorithm successfully on the synthetic dataset. There are a few bugs to fix.
1. Implemented the blender dataset to examine the efficiency of the algorithm.	TBD	To be done
1. Tested Mip-NeRF algorithm.	TBD	To be done

General observations

1. The algorithm has been successfully tested on a variety of (blurry)images which include objects like a basket, a wollen ball, a car, and a human.
2. The neural radiance fields generated by the algorithm are sharp in appearance but not up to the mark. This stage in the algorithmic development needs more focus and efforts.
3. Tested the algorithm with the LLFF dataset successfully for 50, 000 iterations which took over 3.5 hours to train.

