Progress Report

This report summarises the development of the project during the 5th Week (18/07/22-24/07/22)

Tasks	Date	Remarks
1. Read research paper on learning deformable kernels. 2. Read research paper on burst denoising and kernel prediction networks. 3. Research paper on Blind Deconvolution Using a Normalized Sparsity Measure.	19/07/22 - 22/07/2022	Need some guidance on multiple image deblurring techniques.
1. Implemented the FSIM (Feature Simimalrity Image Metric) in Jax.	23/07/2022	There are some errors, possibly in the code to be fixed.
1. Implement LPIPSvgg metric.	24/07/22	Code to be written and tested.
1. Trained the algorithm on daisy flower images.	24/07/22	Algorithm trained successfully.
1. Trained the algorithm on blurry images of the grass.	22/07/22 - 23/07/22	Algorithm trained successfully.

Milestones

1. The algorithm performs as expected on the GPU Nvidia RTX 3060.
2. Training period of the algorithm is reduced considerably.
3. Trained the algorithm on LLFF synthetic dataset is partially successful with some errors.
4. Implementation of image quality assessment metrics is done. Require integration with the main code.
5. Implemented a no_encoding option in the NeRF with the existing positional encoding option.