Memory Lane

As long as history goes, humans have always looked up at the sky and tried to make sense of the stars and the constellations. This admiration of the heavens has seeped into the many enthusiasts who try to capture images of the sky and the stars, sometimes with cameras that are not completely suited for this purpose.

There are many times when due to some factors like motion blur, poor resolution of the camera, or mist in the air, the image taken by us turns out worse than expected. In such a scenario, having software that can build upon the existing knowledge in the image captured to output the image in higher resolution and quality can be a powerful tool. Here, the phrase "better quality" refers to upscaling the image in terms of resolution without compromising its quality.

Memory Lane is a project which uses deep learning to get rid of unwanted noise and sharpen the image, mainly taken by astronomers both professional and amateur.

We plan to add a secure login and sign up feature to identify users uniquely. The main highlight of our project would be a feature to drop images on the webpage and collect sharpened images from the webpage itself. After an image has been restored, the user would have an option to add filters to the image and then add the image to favourites to add the transformed image to our database for seamless access from any device with an internet connection.

With our efforts, we hope to enable everyone to savour stargazing and photography of the heavens!