# Report

# **Simulated Aircraft Landing**

• Plots are shared as pdf.

## **AirSim based Aircraft Landing**

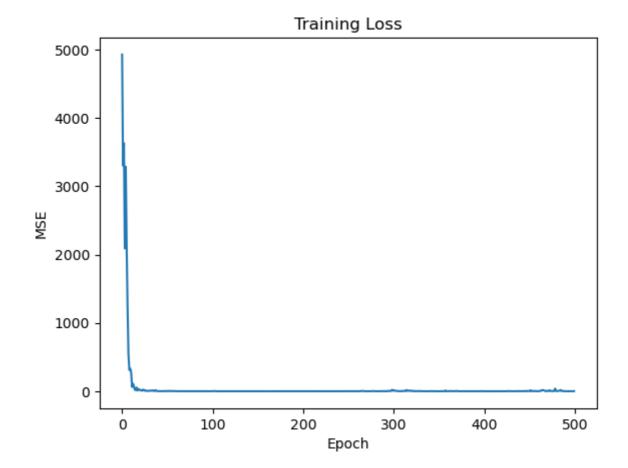
### **Dataset Sample Images**





### **Training DNN**

- What is being predicted?
  - The altitude of the helipad. In other words, the input is the image (as shown above), and the output is the (euclidean) distance between the helipad and the drone.



499/500; Loss: 0.23355694115161896; Time Taken: 0.9140527248382568. 500/500; Loss: 2.2024085521698; Time Taken: 0.9012167453765869.

====== Training Completed ======

Time Taken: 490.84684777259827

### **Testing DNN**

# Model

MAE: 2.0731265544891357 MSE: 10.981839179992676

Total Time Taken: 0.28817319869995117 Average Time Taken: 0.0016189505544941076

Model Parameters: 5406521

#### **Sample Images**

Note: The quality of the images, as of now, are bad as they're directly saved from normalized tensors. I think this can be fixed.

Legend. "Test" means our trained model.

