

COE 379L: Project 3

Ashton Cole

April 11, 2024

1 Introduction

In this project, we build and test various neural networks to predict property damage from a satellite image. The best-performing network is then saved to disk and developed into a containerized Flask *inference server*.

2 Methodology

2.1 Data Preparation

data preparation

2.2 Model Construction and Training

model design: architectures, layers, parameters

2.3 Containerization

docker, docker-compose, flask mac limitations

3 Results

model performance which model was used

4 Conclusions

model evaluation which was us