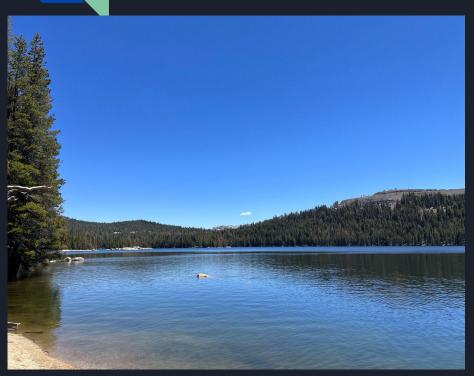
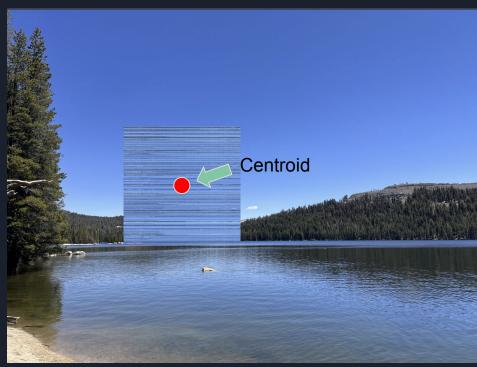
MSDS 631 Project Presentation

Anthony Wang Alan Wang

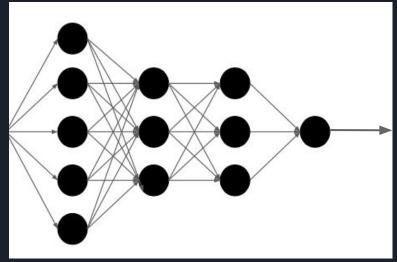
Scrambled Image Detection



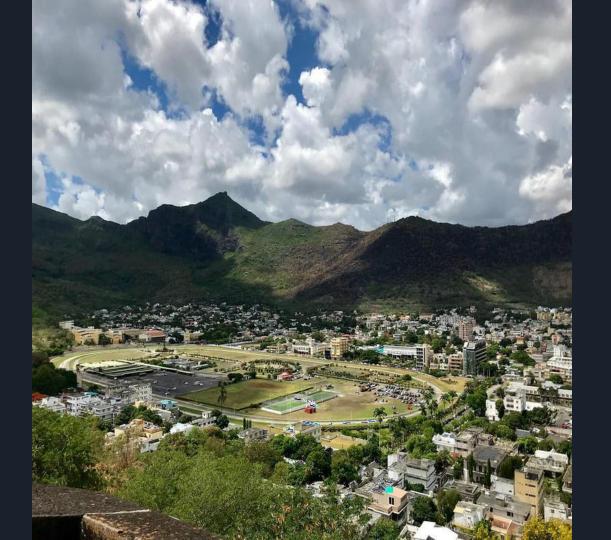


How Deep Learning is Used





coordinates of the centroid





Dataset

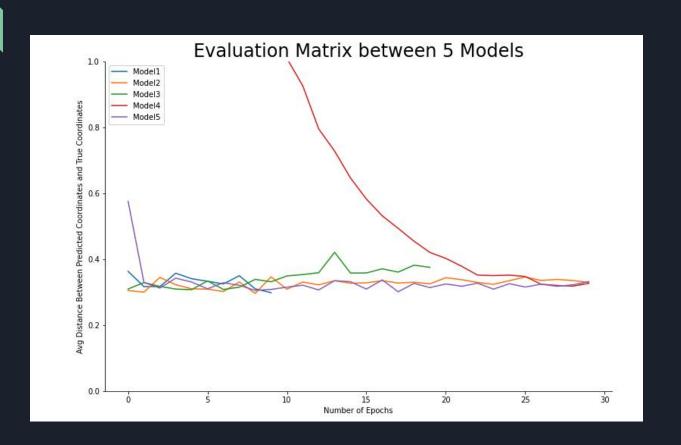
• Wrote a script to scrape 200 photos and modify them

img_path	discolor_ratio	r	У	x	
/Users/anthonywang/Deep_Learning/landscape_scr	1.08	89	120	599	0
/Users/anthonywang/Deep_Learning/landscape_scr	1.08	30	646	376	1
$/Users/anthonywang/Deep_Learning/landscape_scr$	1.10	30	281	246	2
/Users/anthonywang/Deep_Learning/landscape_scr	1.08	174	360	480	3
/Users/anthonywang/Deep_Learning/landscape_scr	1.14	111	430	223	4

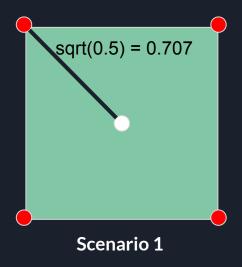
Models Used

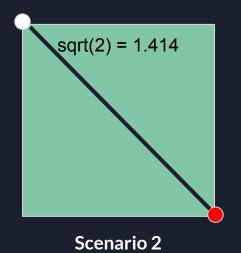
- Model 1: Images w/ high learning rate and fewer epochs
- Model 2: Images w/ low learning rate and more epochs
- Model 3: Images and numerical features before fully connected layers
- Model 4: Images and numerical features before last connected layers
- Model 5: Images and numerical features pass through linear layer before last connected layers

Results



Distance Metric Discussion





- True Coordinates
- Worst Possible Predicted Coordinates