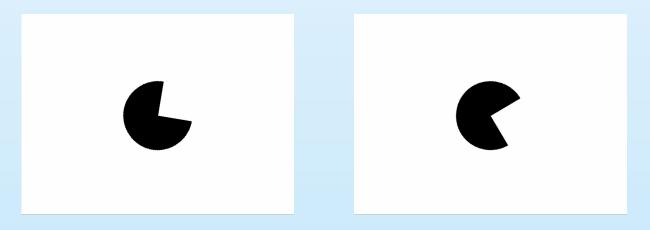
Neural Networks for Feature Analysis

Daksh, Mayank, Katie



This week

Testing the model with Patterns - Clockwise/Anticlockwise Test

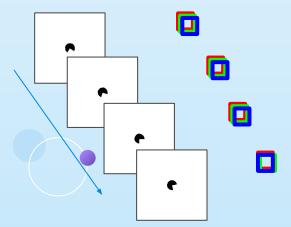


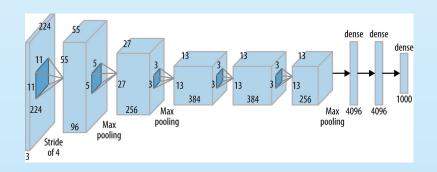
4 frames - 100%

1 frame ~ 50%

Time Varying Features

- Just increase channels
 - Keep same kernel size
 - Works for small movements



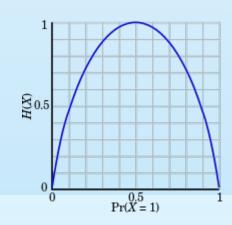


Test Case

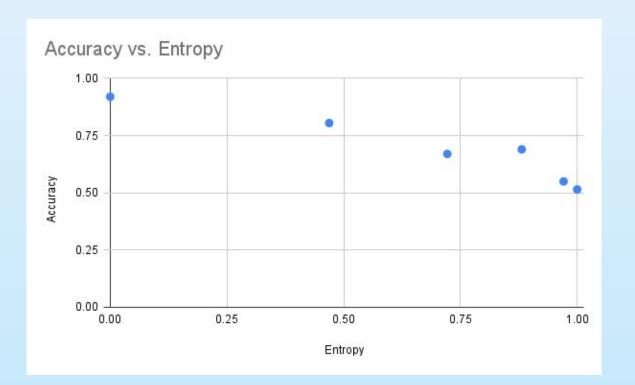
- Either turn left/right randomly
- Can we detect left turns?
 - Probability of turning left/right
 - o 50% vs 100%? Can you tell difference?
 - o In between?
- Use entropy for the general case

$$H(X) = -\sum_{i=1}^{n} p_i \log_2 p_i$$





Test Case



Next week

- Testing Bee Simulator on multiple Frames
- Getting the relation between entropy and accuracy

