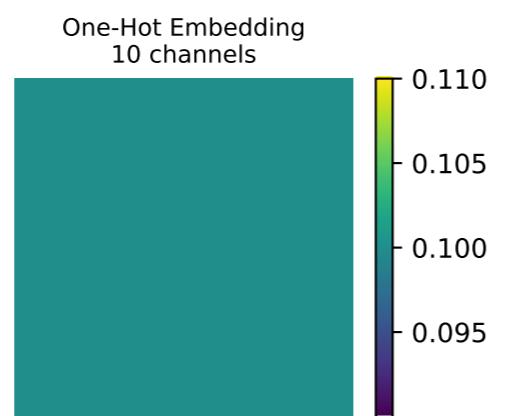
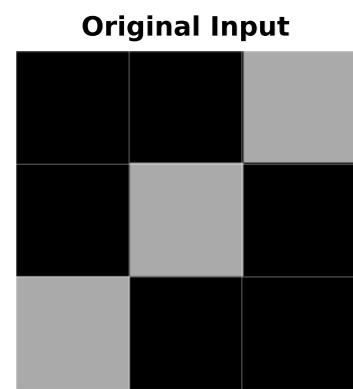
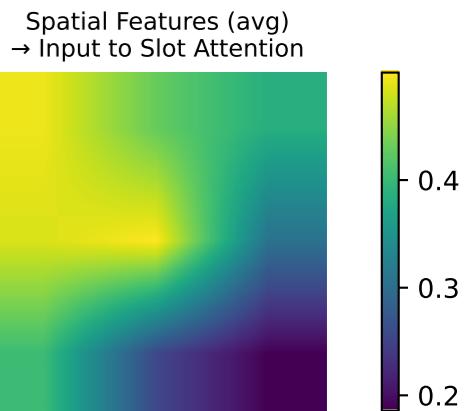
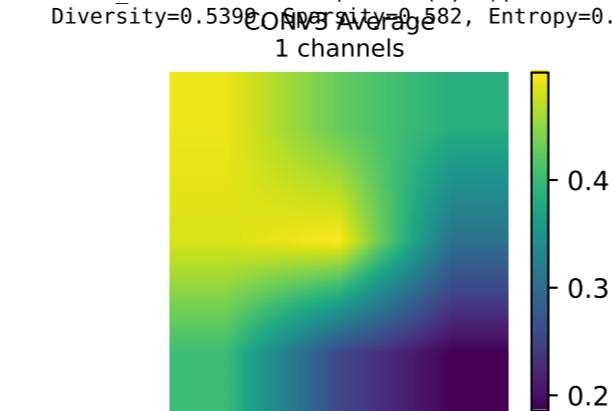
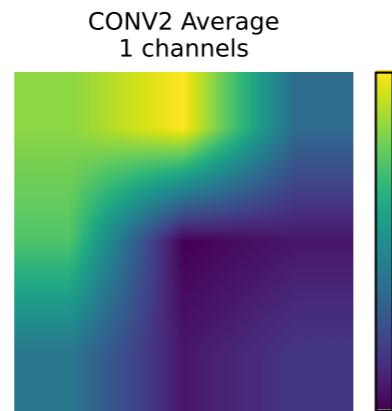
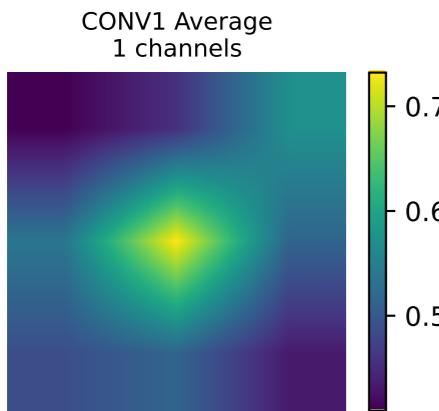


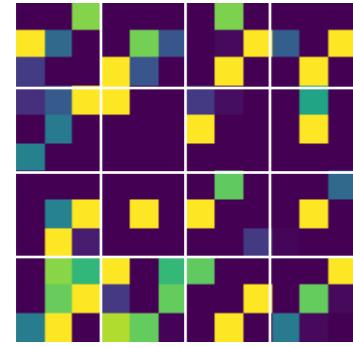
# CNN Feature Analysis: Grid 3x3



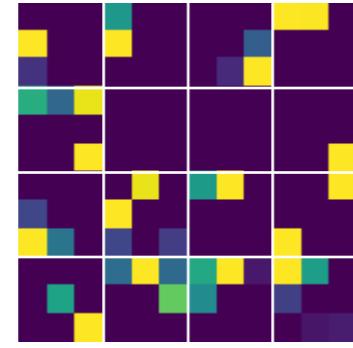
Grid Size: 3x3 | CNN: 3 conv layers | Hidden Dim: 128  
**Layer Statistics:**  
 EMBED: Ch=10, Size=(3, 3), Mean=0.100±0.213, Range=[0.00, 1.00]  
 Diversity=0.4444, Sparsity=0.900, Entropy=0.29  
 CONV1: Ch=128, Size=(3, 3), Mean=0.517±0.342, Range=[0.00, 5.54]  
 Diversity=0.6579, Sparsity=0.605, Entropy=0.96  
 CONV2: Ch=128, Size=(3, 3), Mean=0.373±0.308, Range=[0.00, 5.56]  
 Diversity=0.6911, Sparsity=0.684, Entropy=0.76  
 CONV3: Ch=128, Size=(3, 3), Mean=0.381±0.333, Range=[0.00, 3.87]  
 Diversity=0.5399, Sparsity=0.582, Entropy=0.99  
 SPATIAL FEATURES: Ch=128, Size=(3, 3), Mean=0.381±0.333, Range=[0.00, 3.87]  
 Diversity=0.5399, Sparsity=0.582, Entropy=0.99



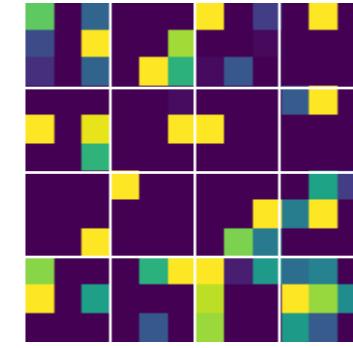
Feature Channels (showing 16/128)



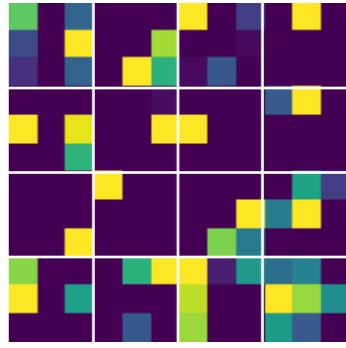
Feature Channels (showing 16/128)



Feature Channels (showing 16/128)



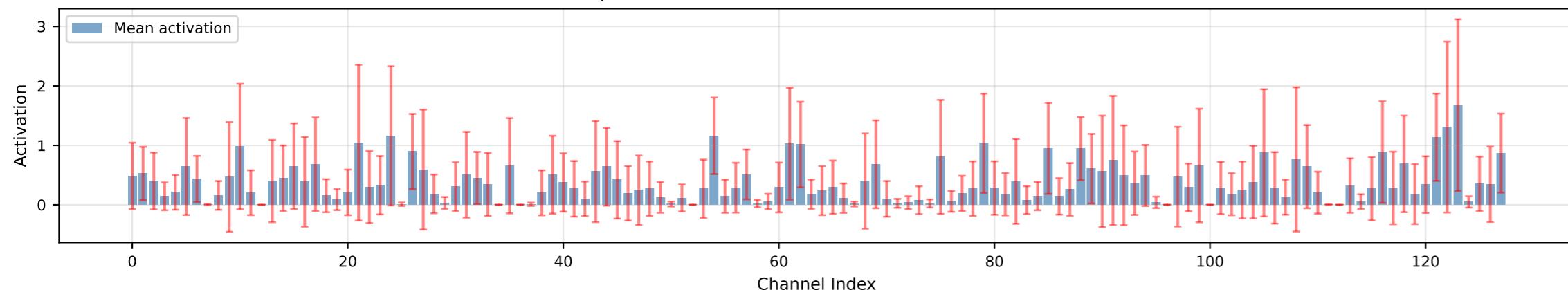
Feature Channels (showing 16/128)



## DIAGNOSIS SUMMARY:

- GOOD DIVERSITY
- △ HIGH SPARSITY: Many dead neurons
- △ LOW ENTROPY: Low information

Spatial Feature Channel Activations (mean ± std)



Spatial Location Similarity  
(sample of 9 locations)

