

This heatmap is then multiplied with guided backpropagation to produce high-resolution, concept-specific visualizations, known as **Guided Grad-CAM**.

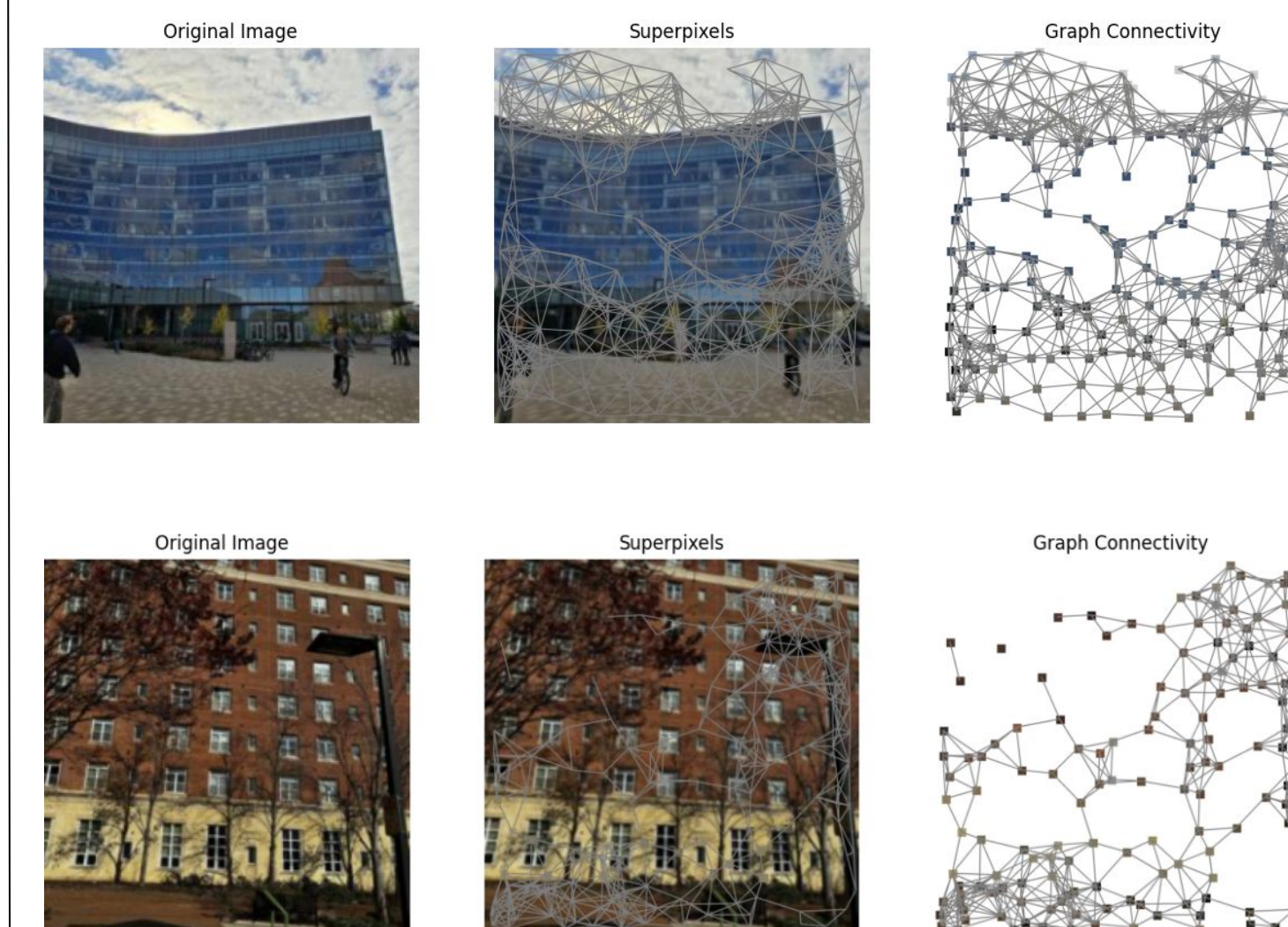
**Results:** Student Model Test Acc: 75%, Teacher Model Test Acc: 73%



- 20 labeled images per class
- Top1 accuracy: 40.82%
- Top5 accuracy: 76.63% (within the top 5 predictions that the model makes)



The model did not converge in the time constraints, but we completed the SLIC transform for certain examples.



**Definition:** Integrates human expertise to guide model learning and improve decision-making.

**Benefit:** Enhances model accuracy by refining predictions with minimal labeled data.

**Application:** Perfect for tasks where expert input is valuable but labeled data is limited.

**Result:** achieved 67% test accuracy training ResNet-18 from scratch, compared to 31% accuracy without doing HITL.

