

## A Appendix

In this section, we showcase the results of our method and present several failure modes discovered by `UDIS`. We use our method to discover potential biases under different settings described in Section 4.1.

A.1 Results on CelebA - Biased Black Hair Setting

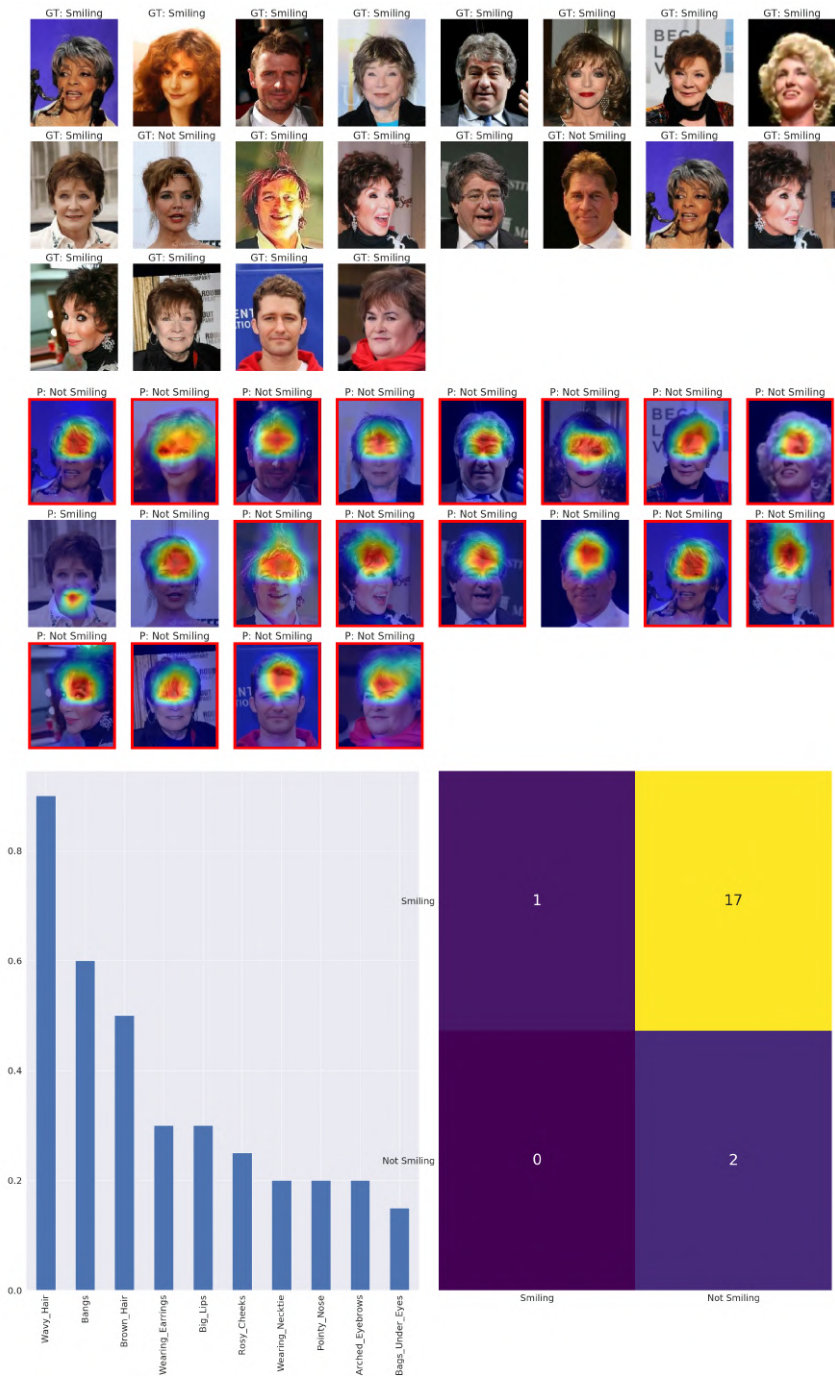


Figure 6: Cluster #1

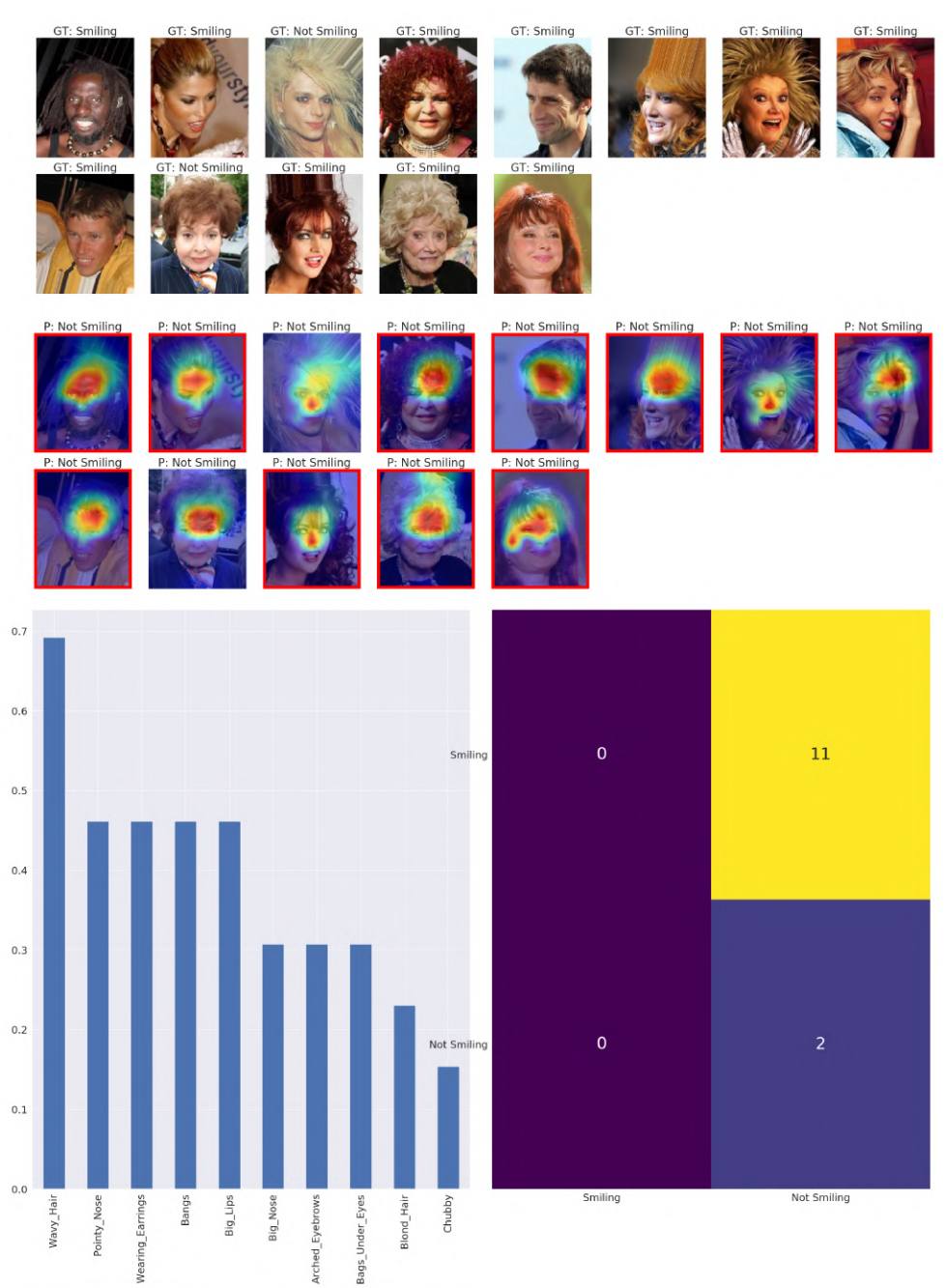


Figure 7: Cluster #2

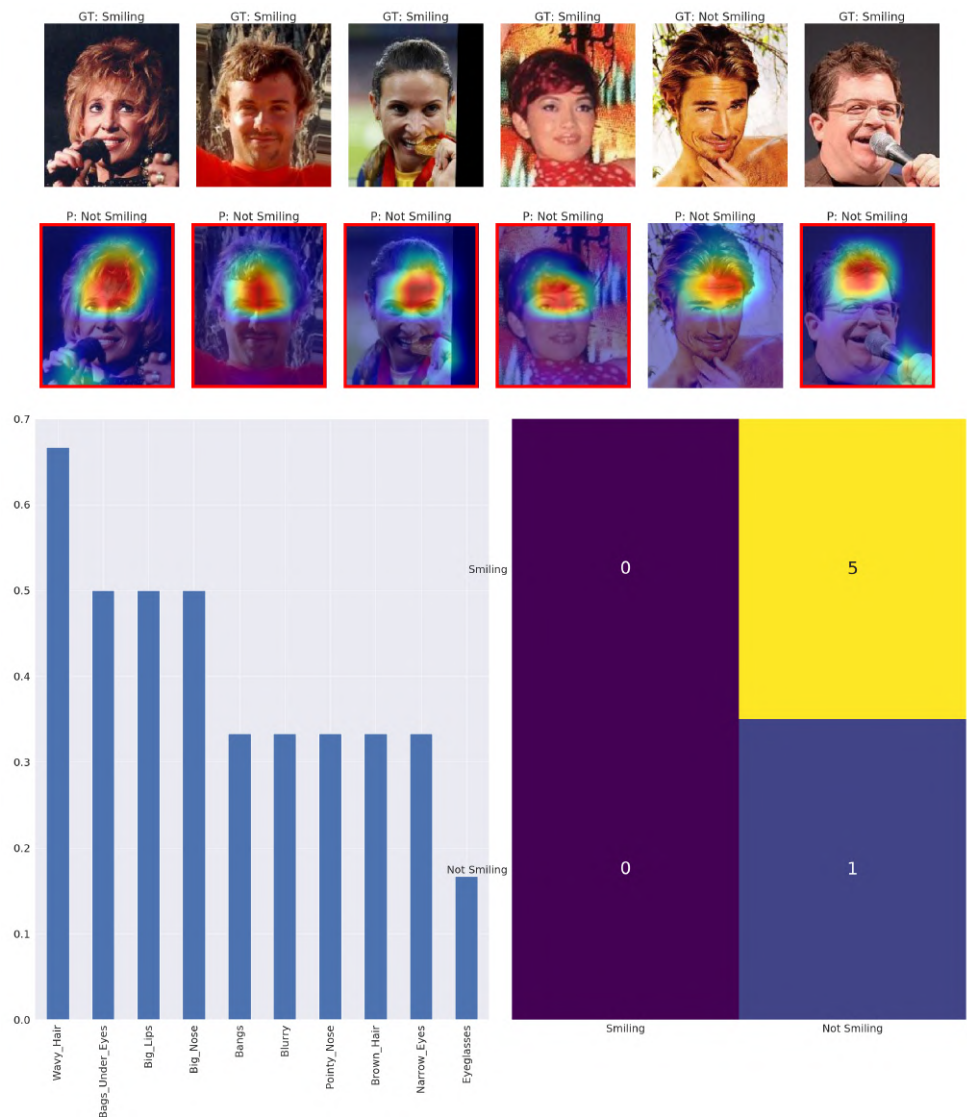


Figure 8: Cluster #3

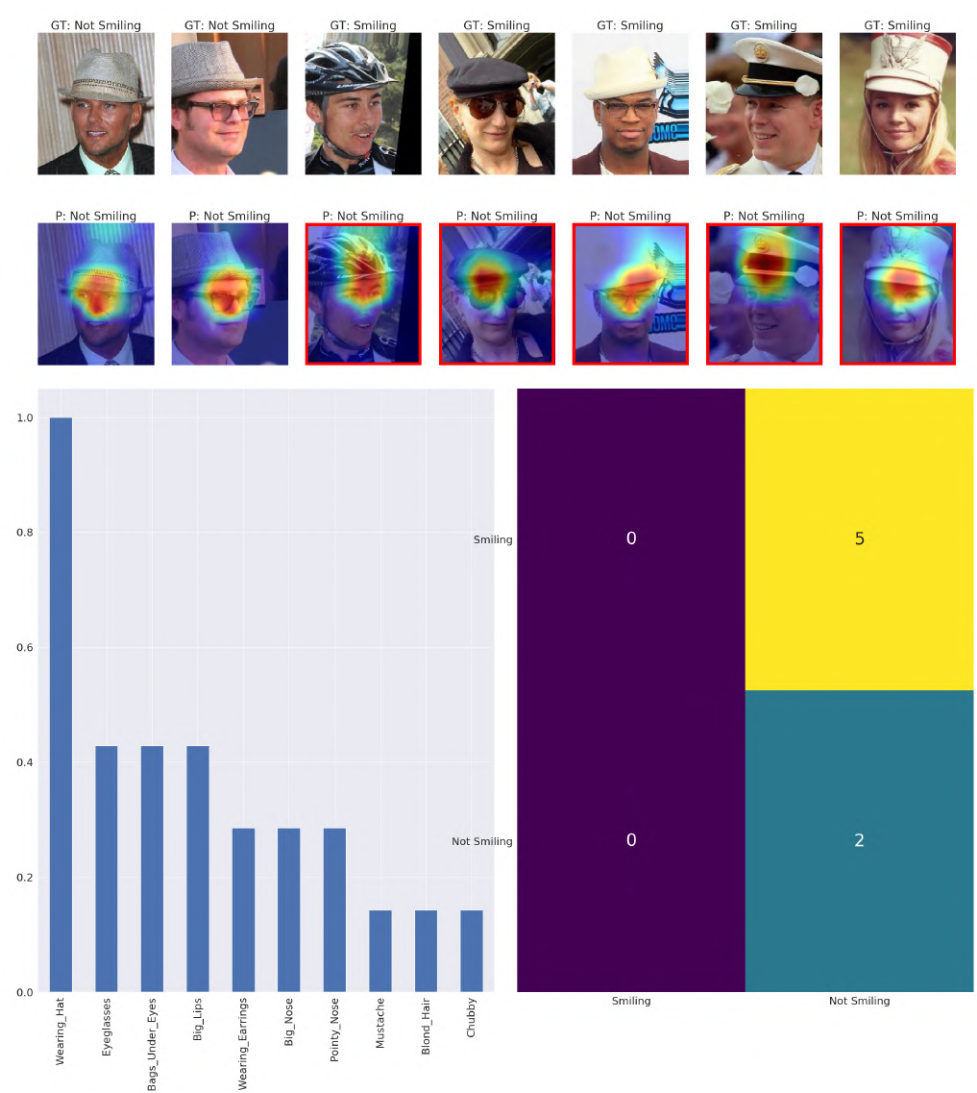


Figure 9: Cluster #4

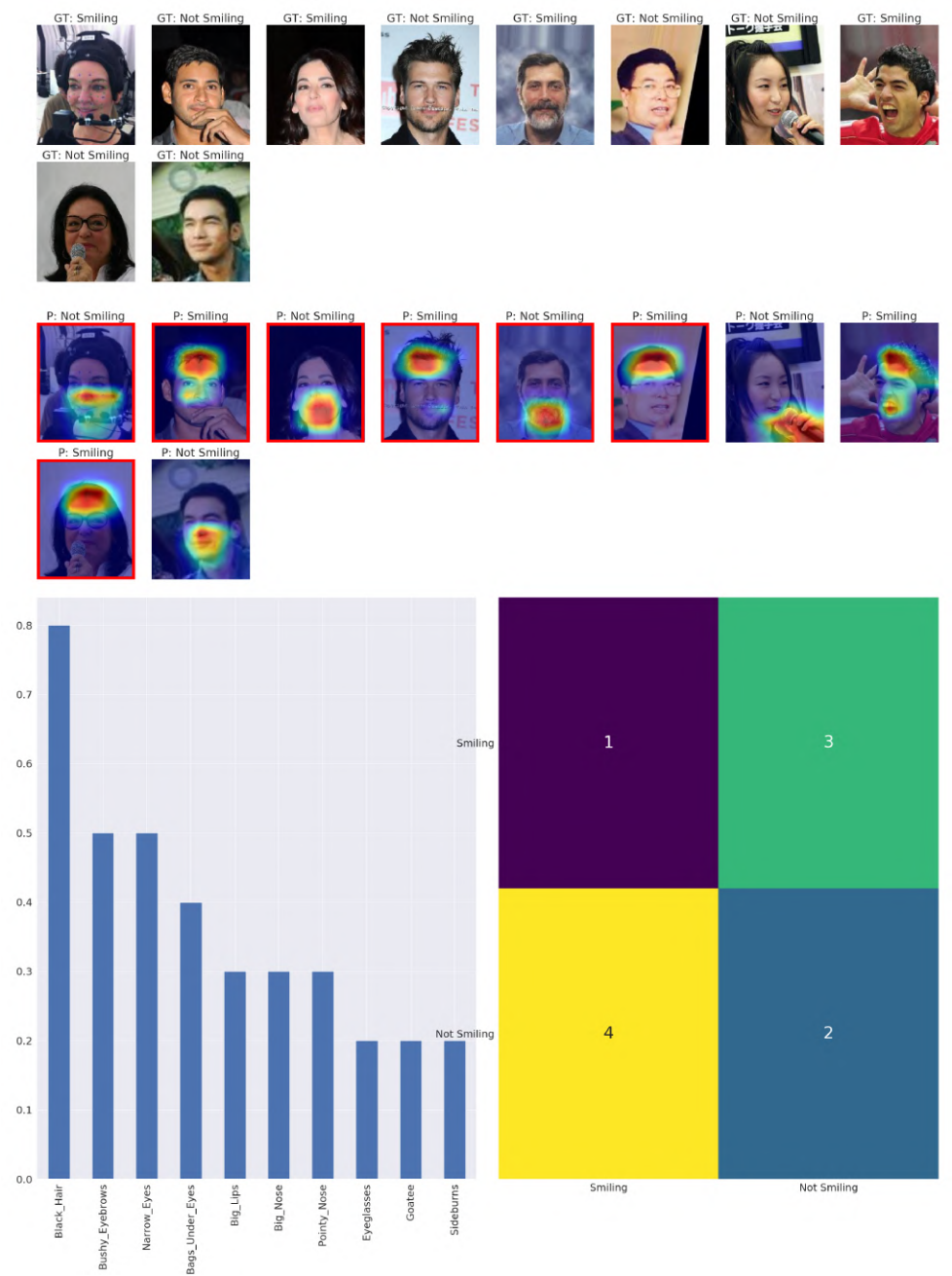


Figure 10: Cluster #5



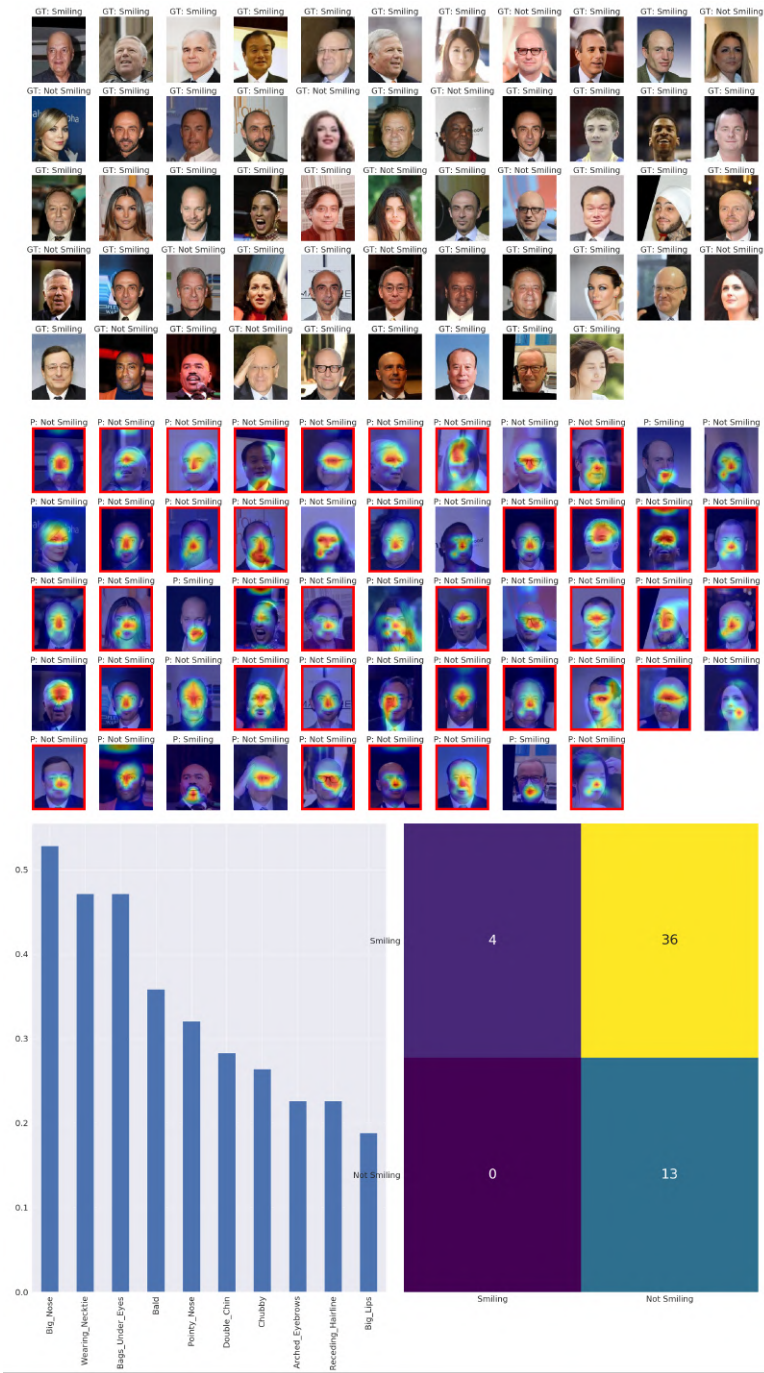


Figure 11: Cluster #6

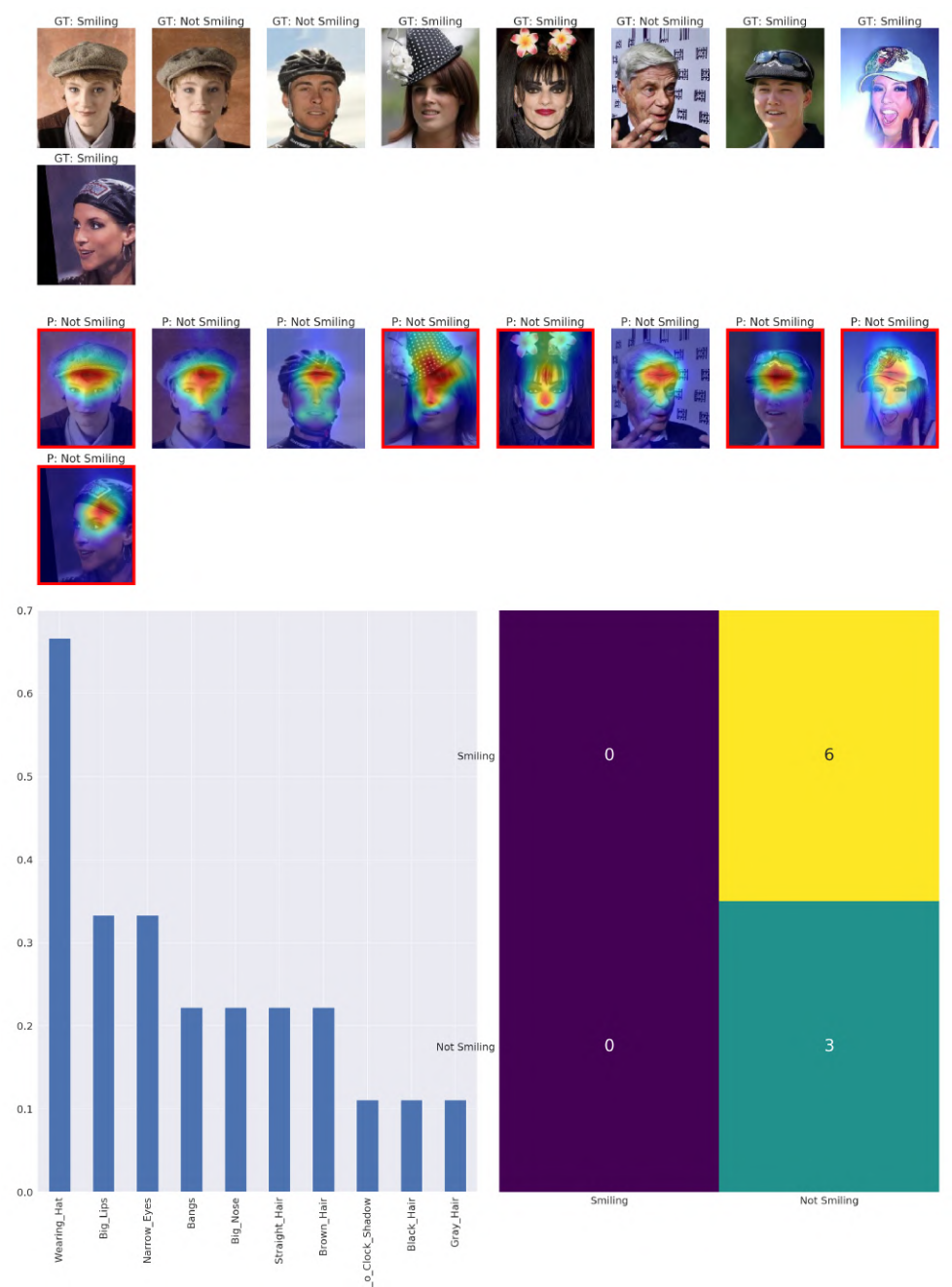


Figure 12: Cluster #7



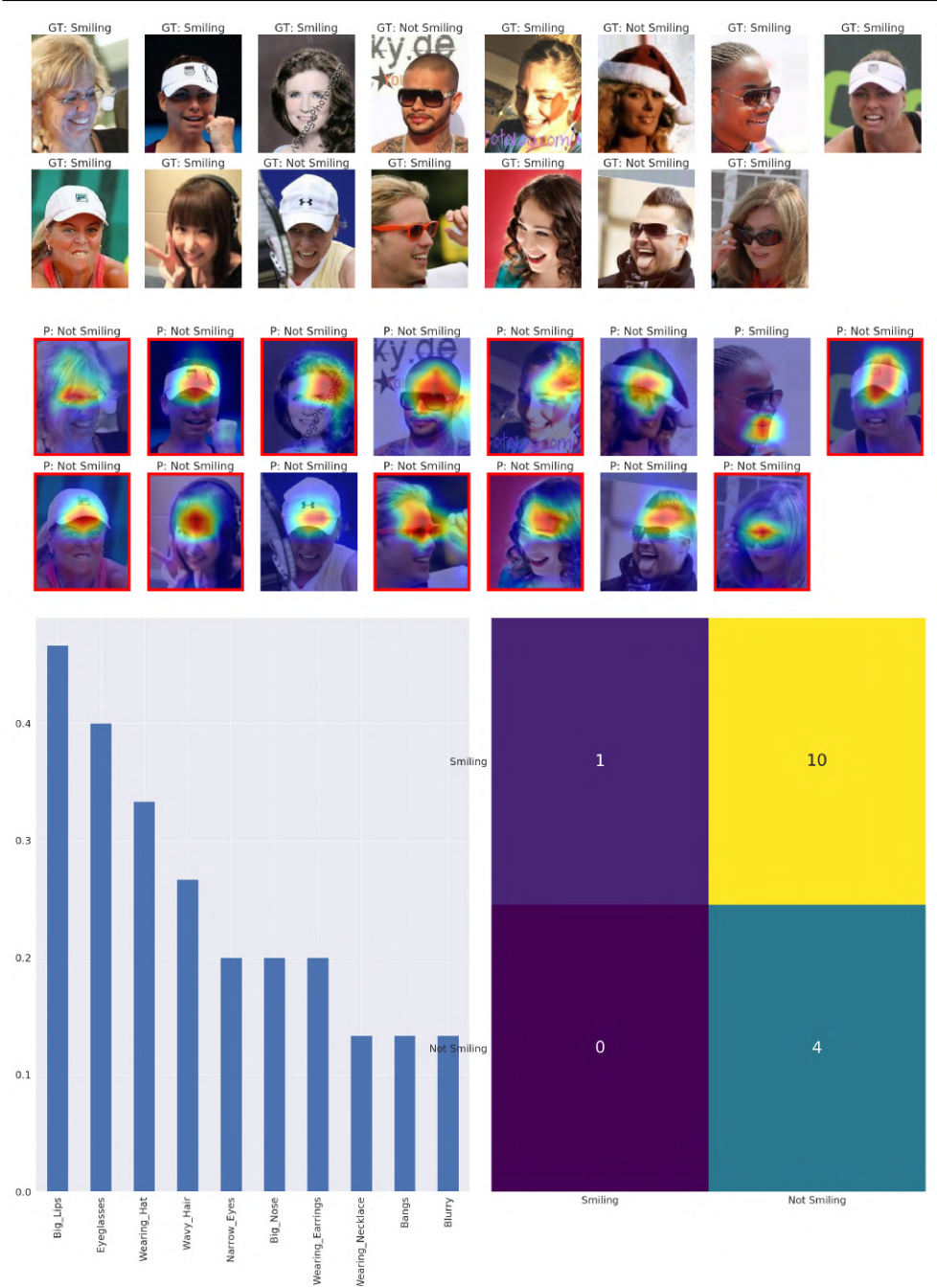


Figure 13: Cluster #8

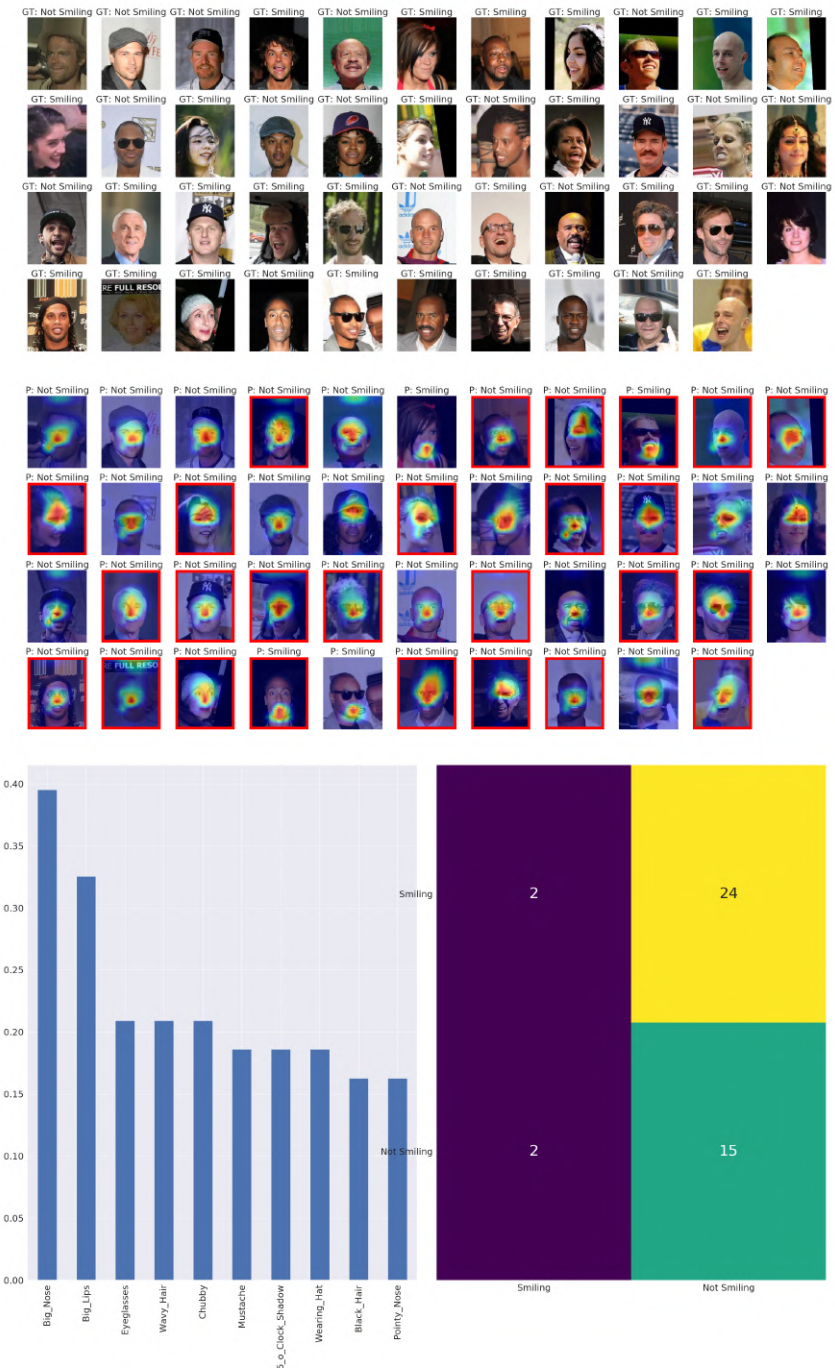


Figure 14: Cluster #9



A.2 Results on CelebA

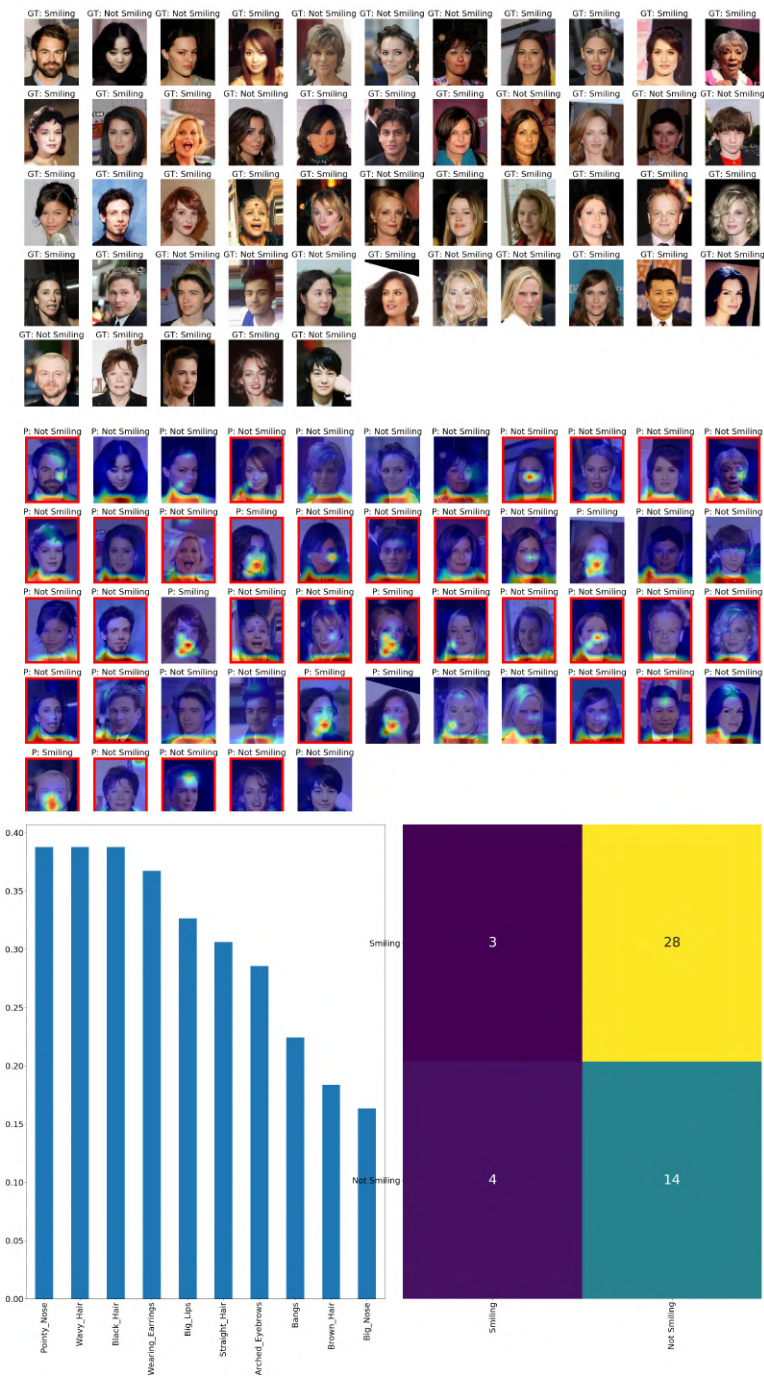


Figure 16: Cluster #1



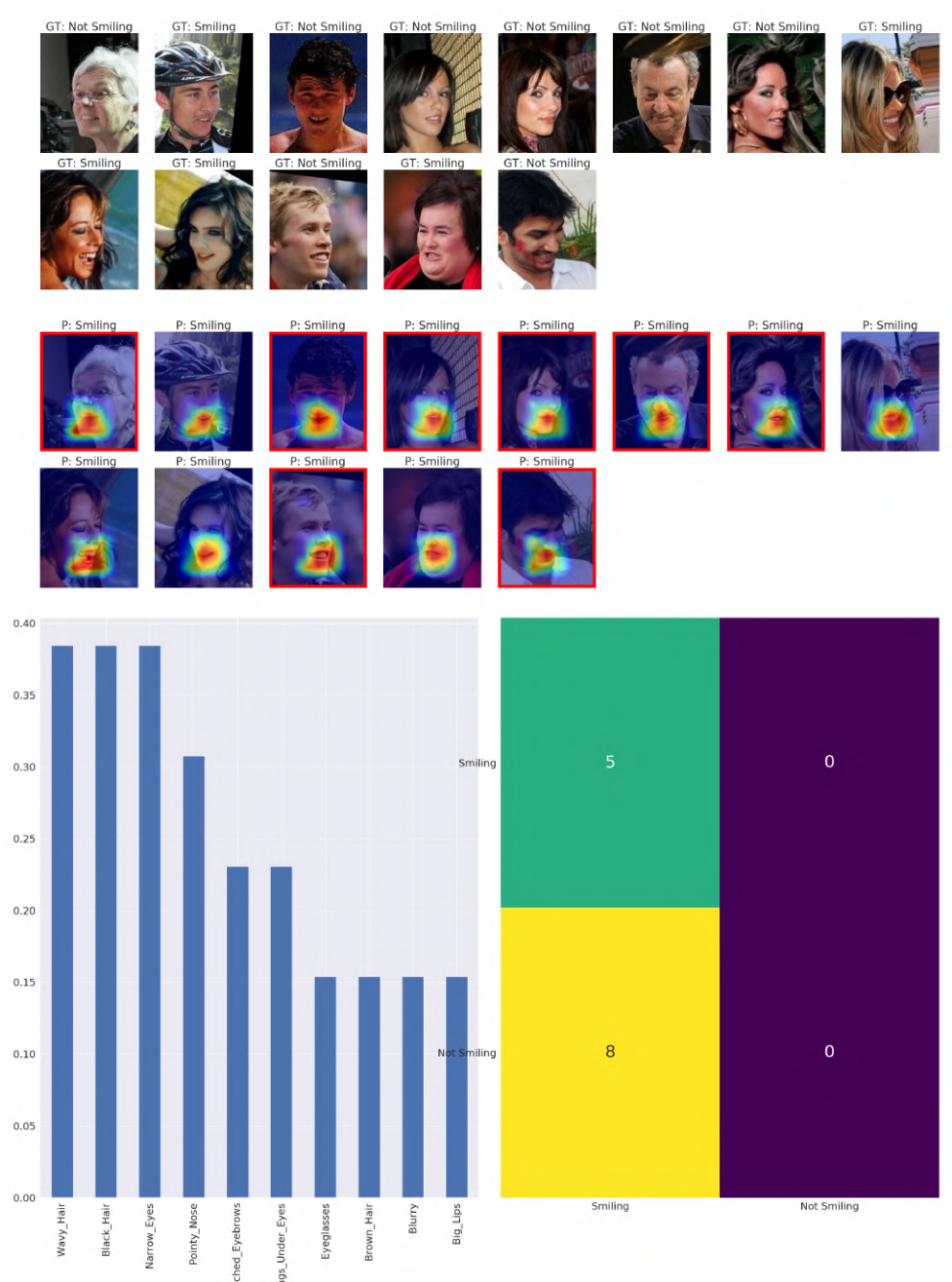


Figure 17: Cluster #2





Figure 18: Cluster #3



Figure 19: Cluster #4

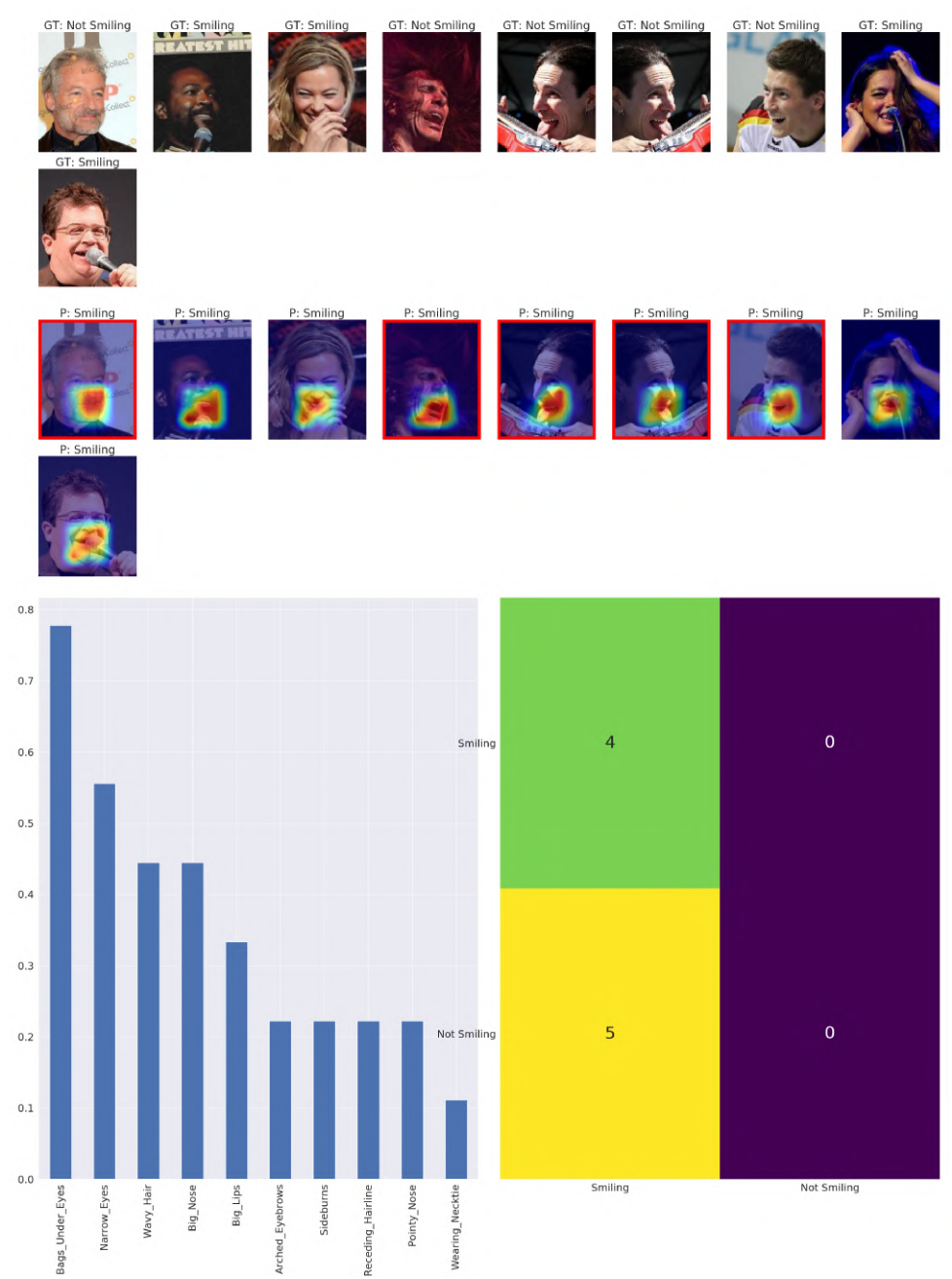


Figure 20: Cluster #5

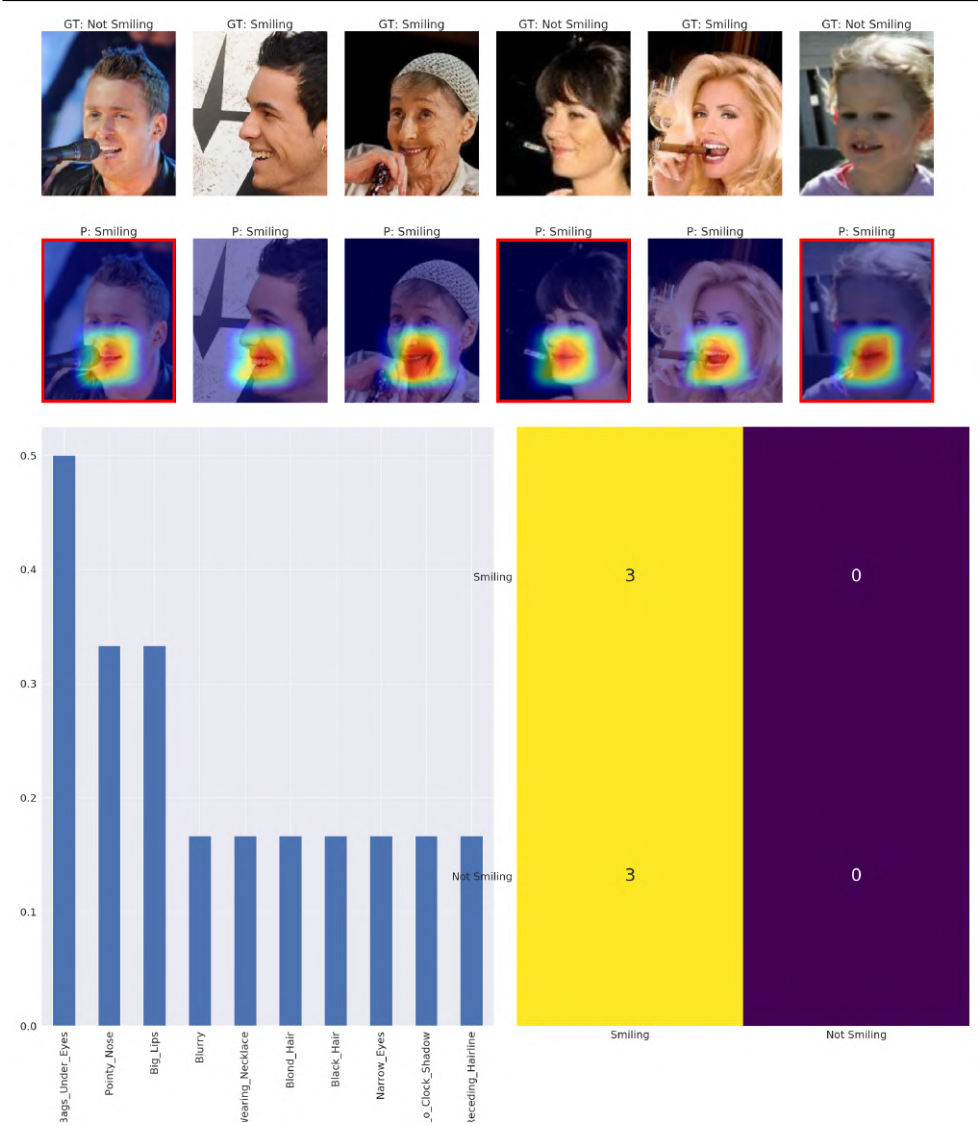


Figure 21: Cluster #6

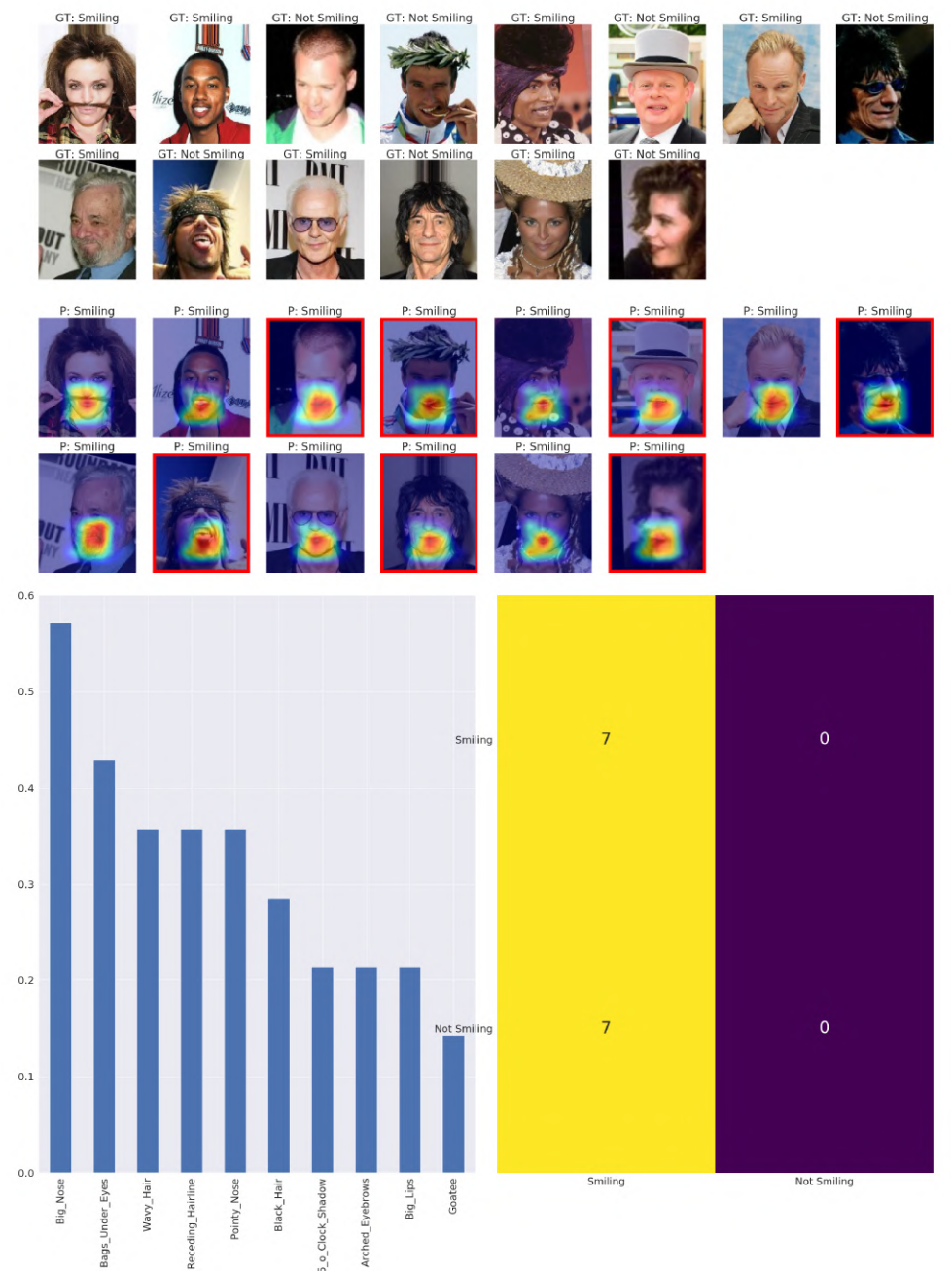


Figure 22: Cluster #7



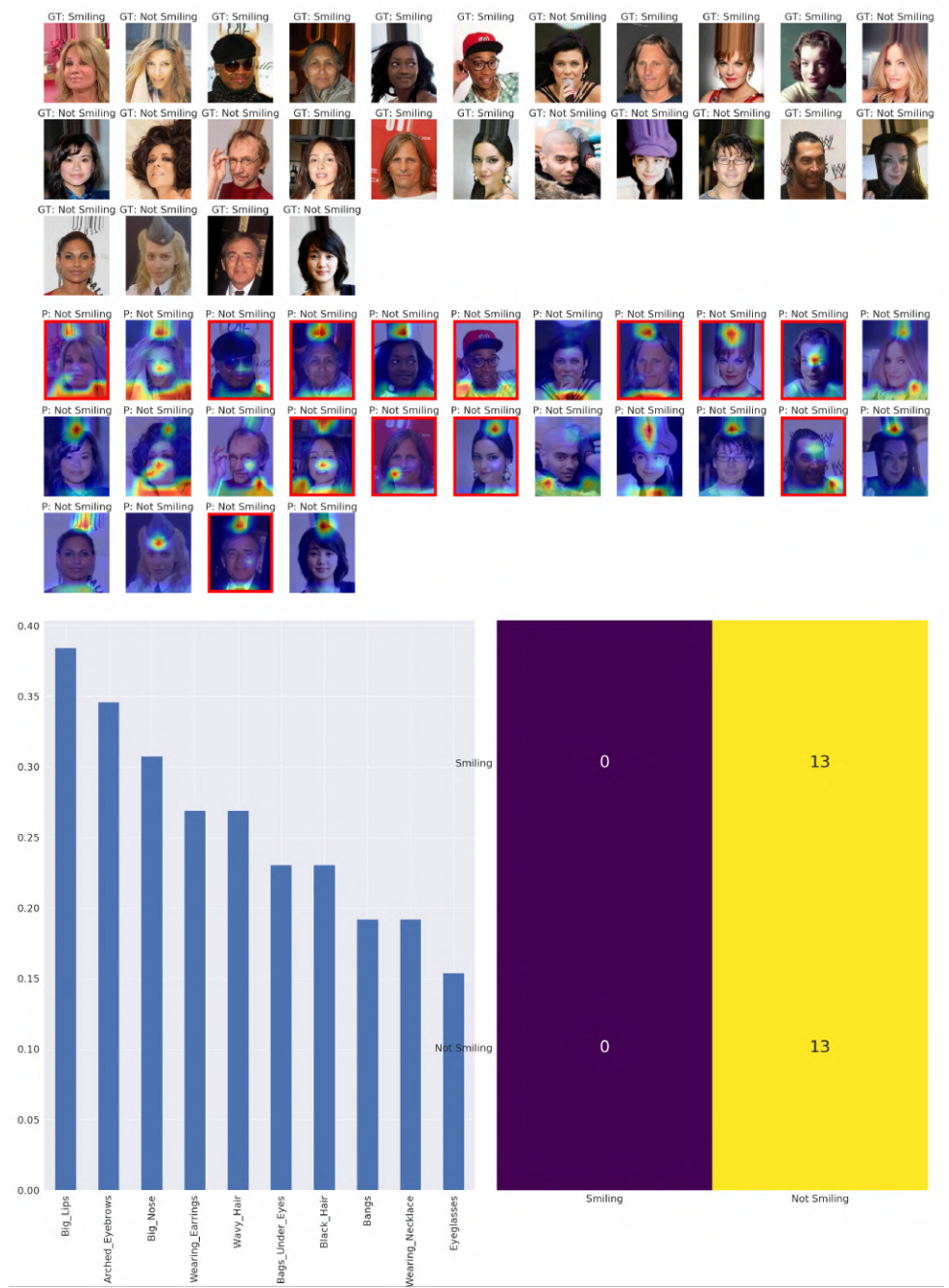


Figure 23: Cluster #8



Figure 24: Cluster #9

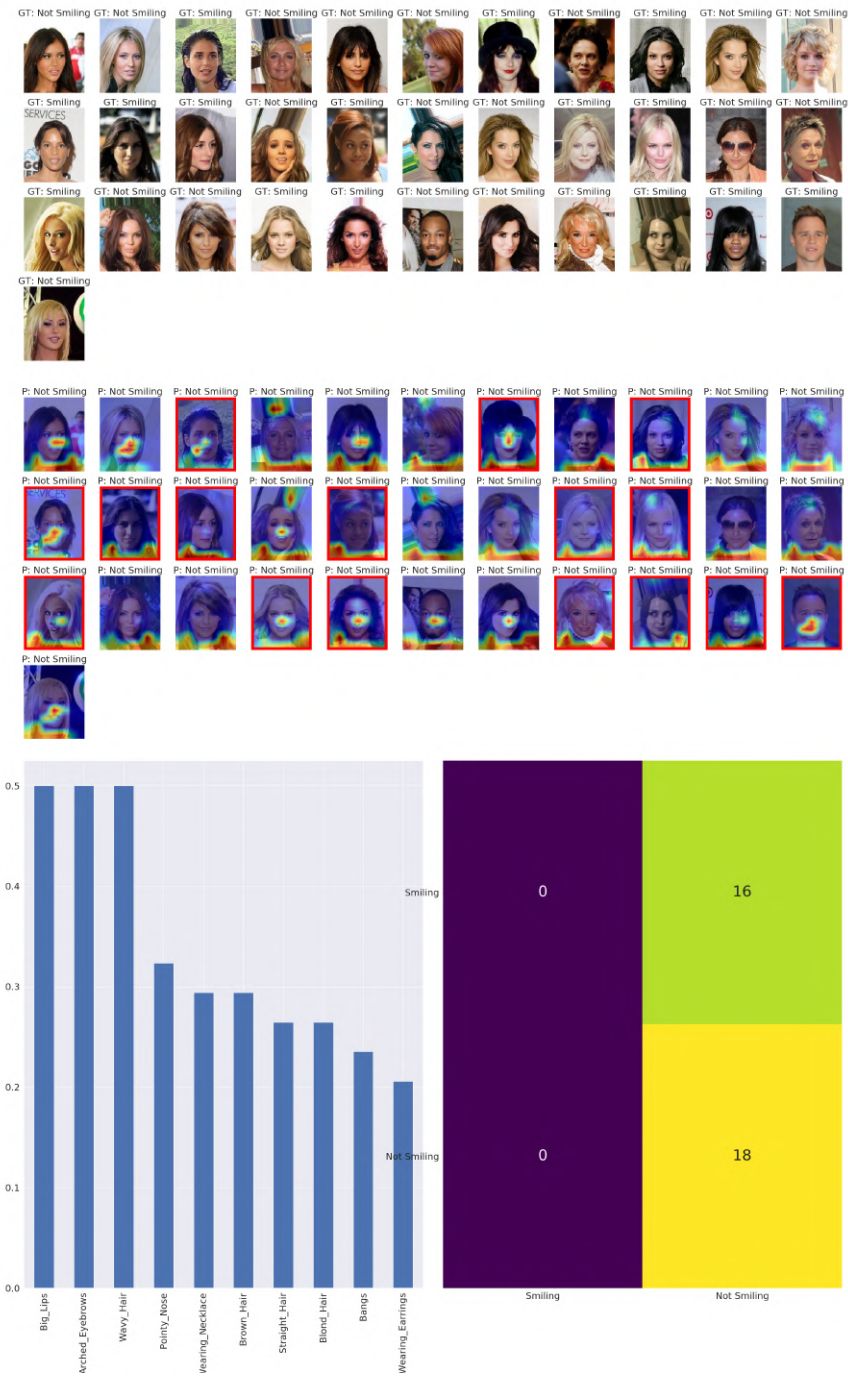


Figure 25: Cluster #10

### A.3 Results on COCO

#### A.3.1 Predicted category : cup

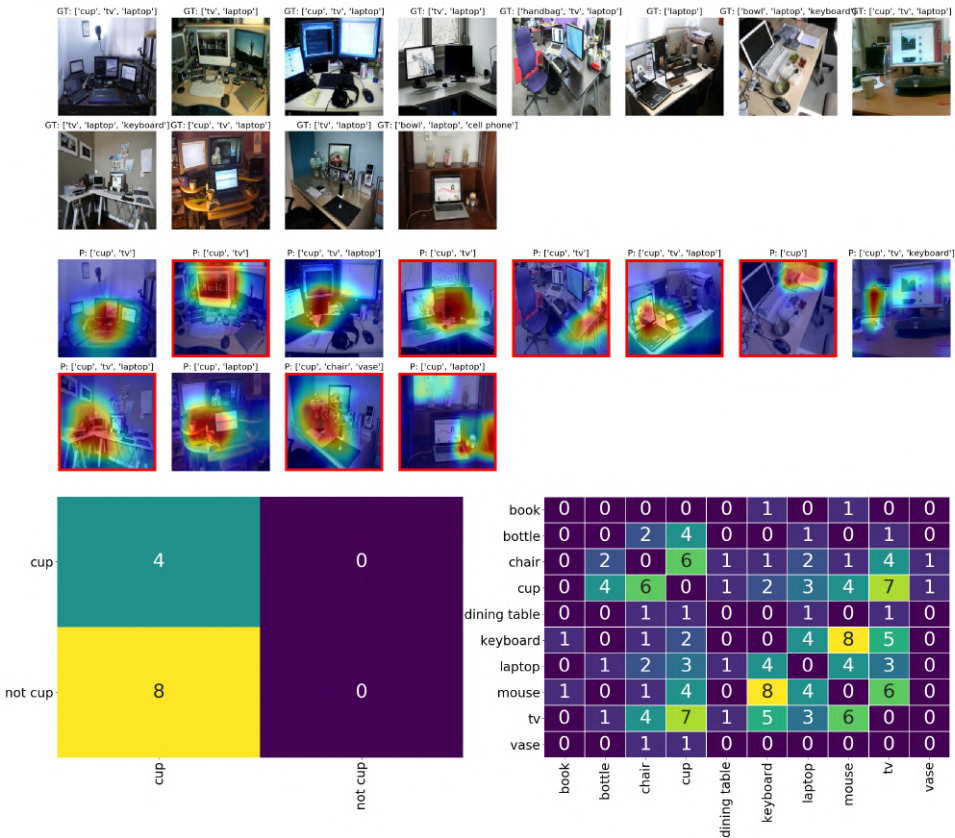


Figure 26: Cluster #1



A.3.2 Predicted category : *bed*

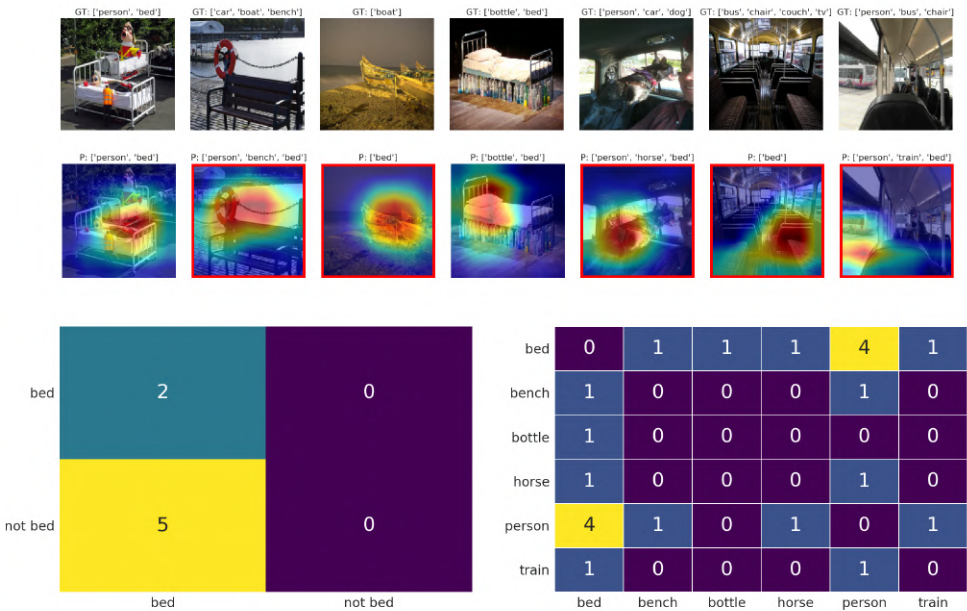


Figure 27: Cluster #1

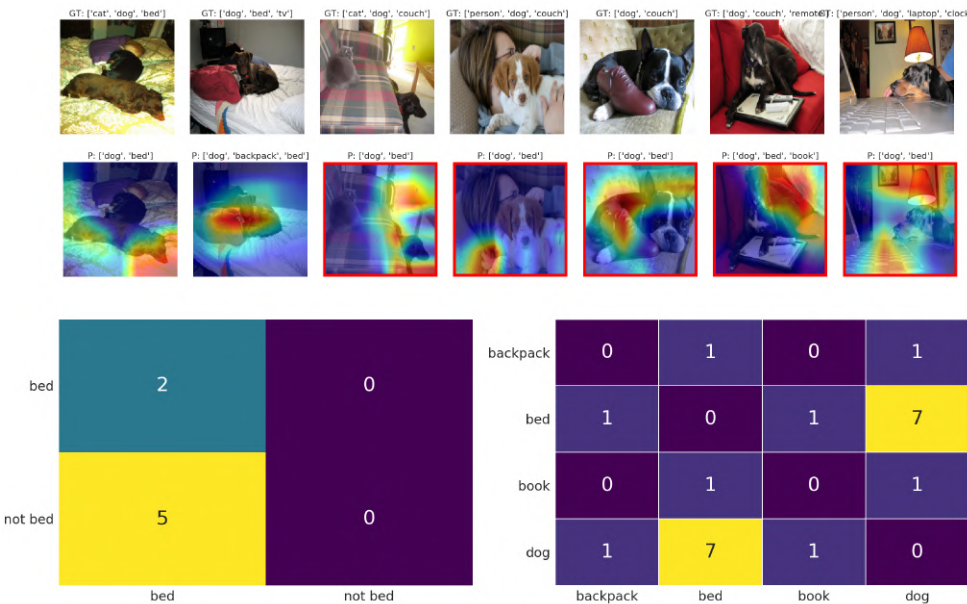


Figure 28: Cluster #2





A.3.3 Predicted category : person

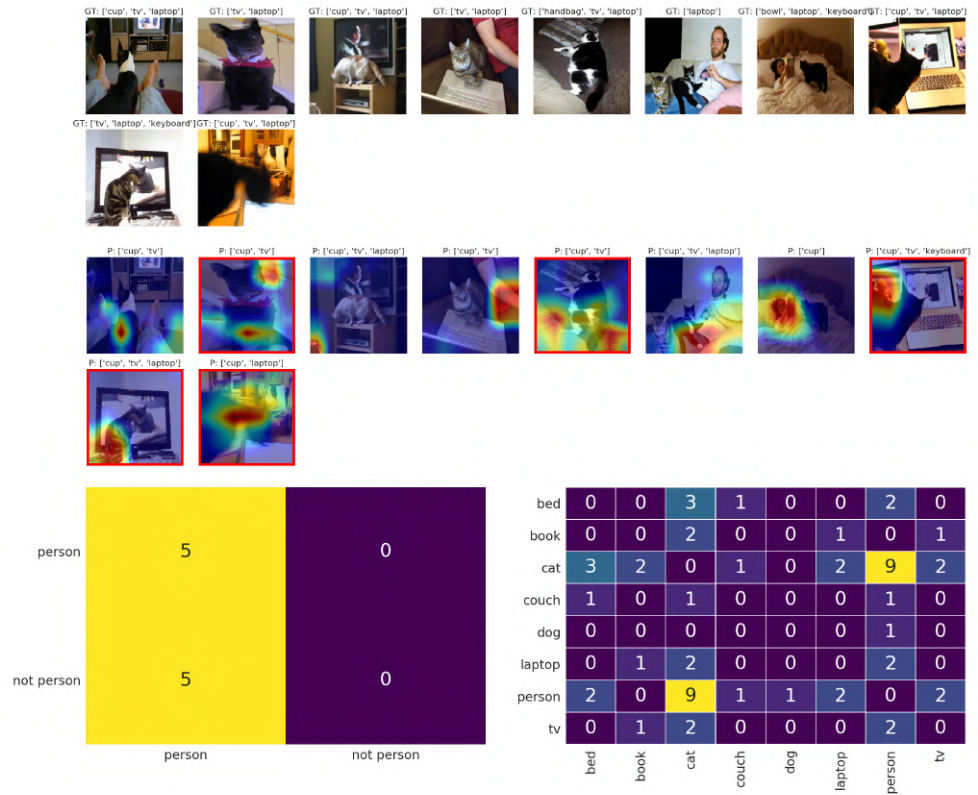


Figure 30: Cluster #1