Ensemble Error Analysis: RAF-DB (Merged Training)
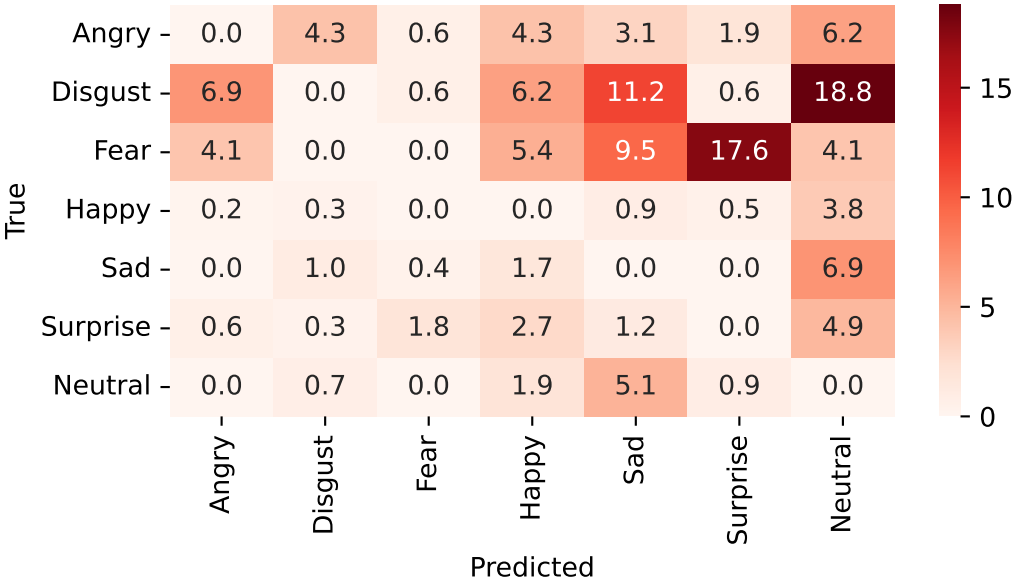
Per-Class Error Rates

Mean: 20.2%

Class	Error Rate
Angry	20.4%
Disgust	44.4%
Fear	40.5%
Happy	5.7%
Sad	10.0%
Surprise	11.6%
Neutral	8.7%
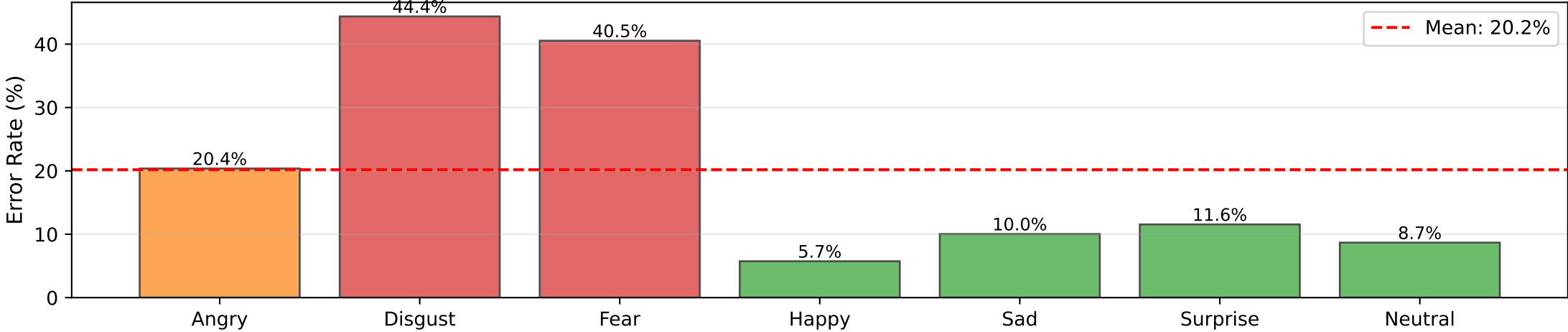
Top 10 Most Confused Class Pairs

Confusion	Confusion Rate (% of True Class)
Disgust→Neutral	18.8%
Fear→Surprise	17.6%
Disgust→Sad	11.2%
Fear→Sad	9.5%
Sad→Neutral	6.9%
Disgust→Angry	6.9%
Disgust→Happy	6.2%
Angry→Neutral	6.2%
Fear→Happy	5.4%
Neutral→Sad	5.1%
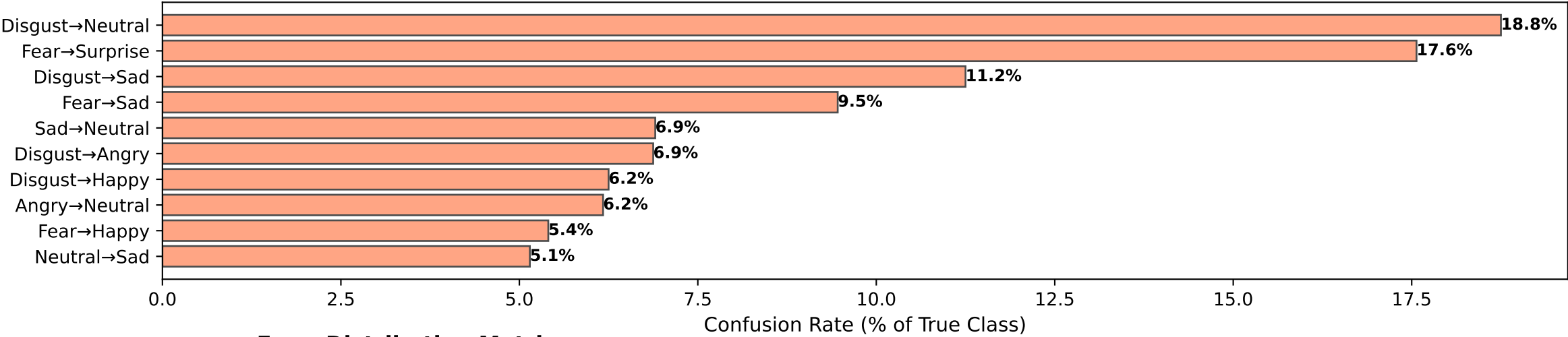
Error Distribution Matrix

True \ Predicted:

True \ Predicted	Angry	Disgust	Fear	Happy	Sad	Surprise	Neutral
Angry	0.0	4.3	0.6	4.3	3.1	1.9	6.2
Disgust	6.9	0.0	0.6	6.2	11.2	0.6	18.8
Fear	4.1	0.0	0.0	5.4	9.5	17.6	4.1
Happy	0.2	0.3	0.0	0.0	0.9	0.5	3.8
Sad	0.0	1.0	0.4	1.7	0.0	0.0	6.9
Surprise	0.6	0.3	1.8	2.7	1.2	0.0	4.9
Neutral	0.0	0.7	0.0	1.9	5.1	0.9	0.0

```
ERROR ANALYSIS SUMMARY
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Overall Accuracy: 88.69%
Average Error Rate: 20.18%

Best Performing Class:
   • Happy: 94.26% accuracy

Worst Performing Class:
   • Disgust: 55.62% accuracy

Most Critical Confusions:
   1. Disgust → Neutral: 18.8%
   2. Fear → Surprise: 17.6%
   3. Disgust → Sad: 11.2%
```