|  |  |  |  |
| --- | --- | --- | --- |
| **Comparison** | **Approach 1** | **Approach 2 (1D CNN)** | **Approach 2 (2D CNN)** |
| **Accuracy on same speakers** | 87.84% | 89.3% | 92.9% |
| **Accuracy on different speakers** | 87.5% | 87.1% | 87.78% |
| **Trainable Parameters** | 66,937 | 449,425 | 60,729 |
| **Confusion Matrix** | Predicted F M  Actual  F 43.42 9.47  M 3.00 44.11 | Predicted F M  Actual  F 44.88 4.08  M 6.62 44.42 | Predicted F M  Actual  F 42.61 6.35  M 0.63 50.41 |

Speaker’s Gender Classification Approaches Comparison