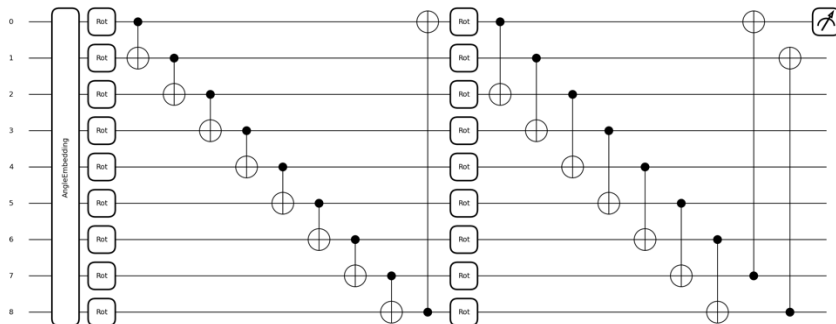
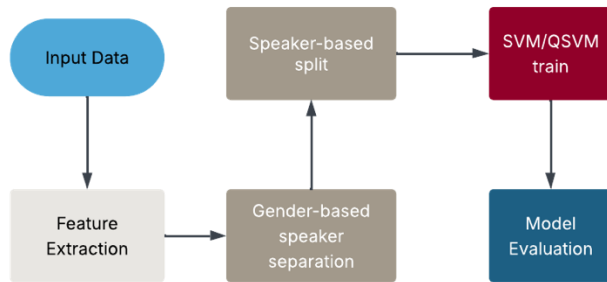
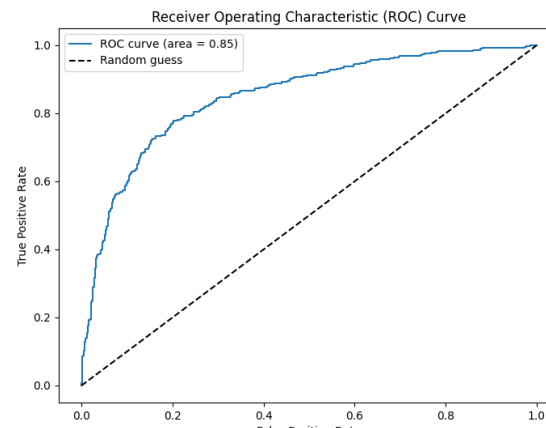
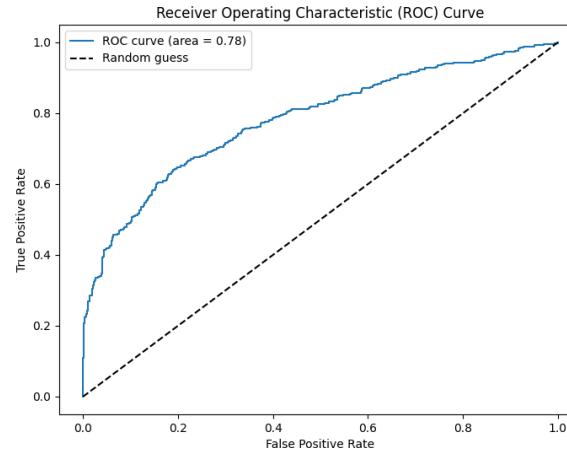


## Research Goals

- Successfully diagnose dysarthria from speech signals.
- Make objective diagnosis decisions.
- Use quantum pre-processing to advance classification abilities.
- Separate speakers by gender to isolate features.

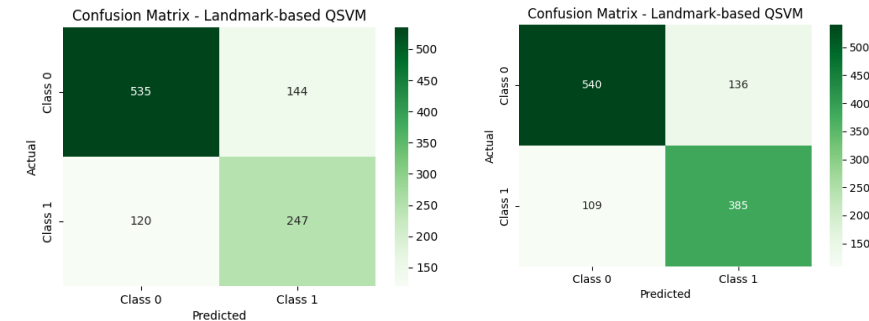


## Preliminary Results



## Conclusions

- Similar classification accuracy for both male and female classifiers.
- Better results obtained after preliminary feature selection.
- Quantum implementation provides promising classification results.



## Next Steps

- Work on feature selection and analysis.
- Incorporate noise in quantum circuit.
- Cross-dataset generalization and validation.

