

8 Appendix

4.2 Dimensionality Reduction

Correlation Matrix of the original data features:

5.3 Support Vector Classification

Confusion Matrix for Support Vector Classification results:

5.4 Random Forest Classification

Confusion Matrix for Random Forest Classification results:

9 References

- "Common Language" Data Source
- Audio Signal Processing for Machine Learning
- SINDy
- Python Package for Music and Audio Analysis
- Number of MFCCs used in the code
- Formants
- Principal Component Analysis
- Randomized Hyperparameter Search
- Support Vector Classifier
- Multi-Dimensional Scaling
- Random Forest Classifier
- K-Fold Cross Validation
- Randomized Hyperparameter Search
- Model Evaluation Metrics¹, Another²
- Multiclass Receiver Operating Characteristic (ROC-AUC)
- **The most important algorithm of all time¹, Another²**