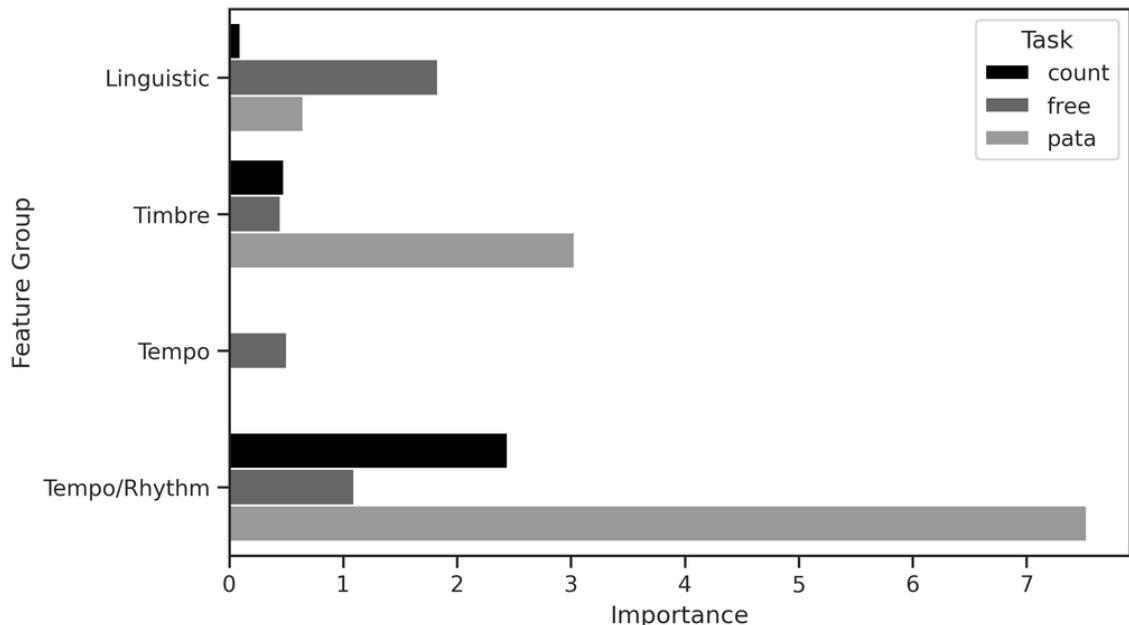
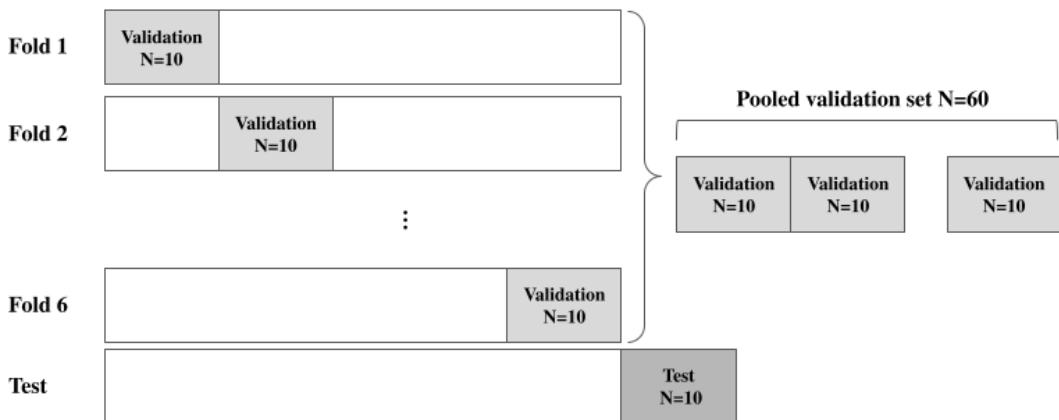


Supplementary Figure 1: Confusion matrix of true and predicted SARA-scores in an additional hold-out set based on SARA^{speech} machine learning approach using a broad set of voice features.



Supplementary Figure 2: Top ten voice and speech features contributing to prediction analysis results depending on specific speech task.



Supplementary Figure 3: Performance of the trained SARA^{speech} system was evaluated in a 6-fold cross validation scheme with an additional hold out set.

Domain	Name	Capturing	Basis	Implementation of Basis	Comment
Paralinguistic	Spectral	Timbre	STFT-Spectrogram	librosa.stft	Further developed
	Tempo	Speech Tempo	(Fourier) Tempogram	librosa.feature.tempogram librosa.feature.fourier_tempogram	Further developed
	Rhythm	Speech Rhythmicity, Variability	Onset-Envelope	librosa.onset.onset_strength	Further developed
Linguistic	Pronunciation	Intelligibility Speech Tempo	Speech-to-text	sttWithMetadata	<ul style="list-style-type: none"> - Count of words - Count of real-words - Confidence score (intelligibility) - Duration of words

Supplementary Table 1: Open-source features used for further development and analysis.