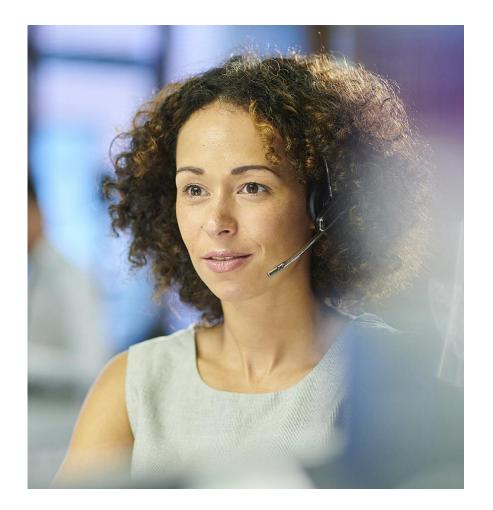


Voice anonymisation and the GDPR

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LDS Technology Workshop 29/01/2024

www.nijta.com



Context

Sharing data creates value !

1M hours of calls recorded **per month** for large Contact Centres

Call recording is essential for:

- Listening (Quality assurance), and
- Extracting key strategic information for their business at scale.



May contain, besides the linguistic content of speech

voice characteristics speech characteristics (e.g., loudness, pitch, nasality, (e.g., speech, tempo, rhythm, pronunciation, roughness, hoarseness) accent, articulation, intonation, clarity of expression) non-speech human sounds background sounds (e.g., sneezes, coughs, laughter, (e.g., vehicle sounds, natural soundscapes, media sounds, eating sounds) cries, breaths, sighs) May allow inferences about user's... **Personality traits Physical health** Mental health (e.g., depression, schizophrenia, (e.g., Parkinson's disease, Gender Age (e.g., openess, asthma, common cold, flu) post-traumatic stress disorder) extroversion, neuroticism) Communication disorders Impression on other people Socioeconomic Geographical (e.g., language disorders, voice (e.a., perceived as charismatic, status origin disorders, speech disorders) competent, emotionally stable) Moods and emotions **Biometric Body measures** Medium-term states (e.g., happy, angry, sad, (e.g., body, weight, body height) (e.g., sleepiness, intoxication) Identity bored, frustrated, anxious)

Call recordings contain sensitive information about the customers.

Context

This raises challenges around privacy, data security and protection, regulatory compliance, and customer trust.

Overview of some sensitive attributes discernable from speech data



Key problem

Valuable voice data is simply erased to comply with the GDPR and other privacy similar regulations





- Dependence on third-party vendors for voice analytics
- > No data ownership! **No in-house AI**!
- 30-90 Days to delete the data
- → Fear of non-compliance

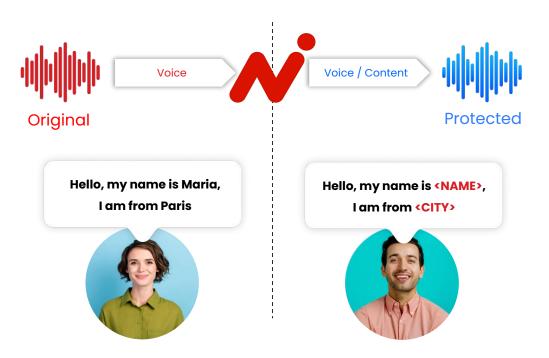
Al powered <u>Anonymization</u>, rather than data deletion.

Our proposition

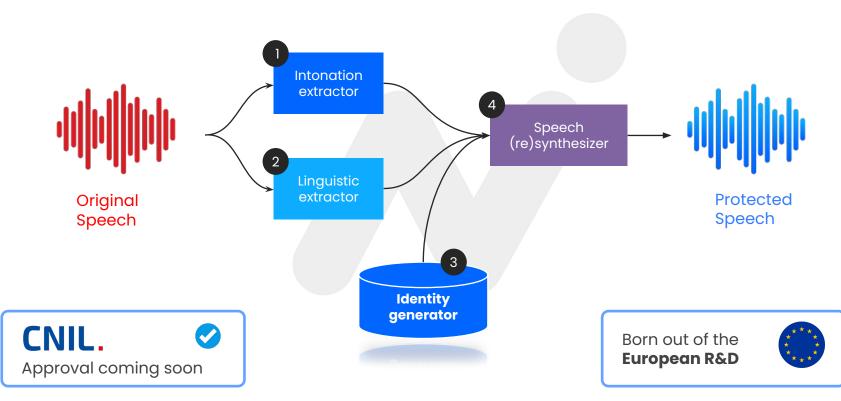
Nijta removes **biometric and sensitive** information from **speech data** while preserving the utility* of voice for AI analytics

*prosody, emotions, age, health, ...

Speech to Speech Anonymization

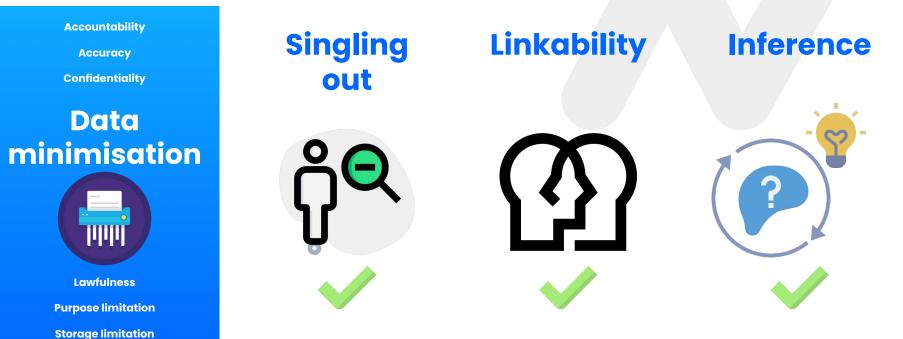


Our key feature STS - Voice anonymization



https://cordis.europa.eu/article/id/436162-giving-a-voice-to-voice-privacy

GDPR Compliance and privacy guarantees*



*Opinion 05/2014 : Article 29 Data Protection Working Party

Partnerships



Get in touch

For follow-up questions and demo, reach out to:

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Demo link

www.nijta.com