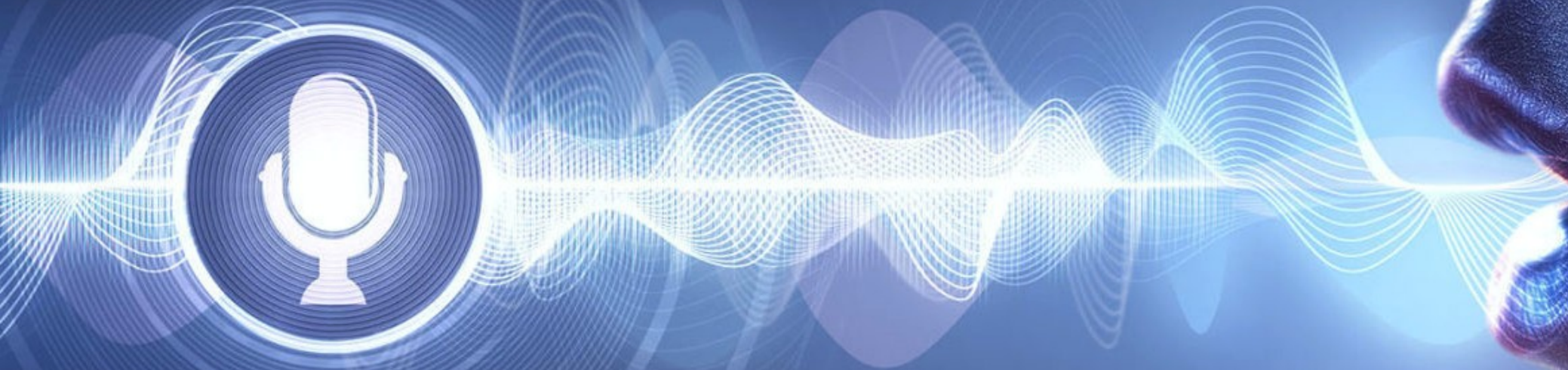


Voicewise

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Voice-based Inebriation Detection for Automotive Alcolock



- The project
- Demo

DEMO

F. Pellini
V. Cesarini
CTO

Vocal Alcolock

- ✓ The Vocal Alcolock will be a **low-cost, efficient alternative to the breathalyzer**
- ✓ It is based on **identifying the driver's state of inebriation through his/her voice**
- ✓ It can be implemented with **in-built car microphones**
- ✓ It contains **Identity Verification** through Speaker Recognition, which acts as a safety measure to ensure the veridicity of the test
- ✓ The detection technology is Voicewise's proprietary AI algorithm, which can be envisioned working «a-priori», without having a driver profile, or specific to identify each person's vocal variations

DEMO

- ✓ **Pre-recorded vocal samples** of people in sober or inebriated state uttering specific vocal tasks
- ✓ The demo involves submitting vocal samples manually to our algorithms to prove their working principles and preliminary effectiveness
- ✓ The vocal samples are **NOT** part of the training set of the algorithms and **have never been evaluated** by it

DEMO

- ✓ Involves Italian-native participants
- ✓ Subjects should be evaluated in a **sober and/or inebriated state** ($>0.05\%$ BAC): the participants of the DEMO must drink up to a 0.44 liter can of beer
- ✓ A subject records his voice (in the case of inebriated subjects, 20+ mins must be waited after the last drink) and receives his real-time result regarding its state
- ✓ The result is compared to a classic breathalyzer
- ✓ As a prototype, the aim of the demo is to show the workflow and demonstrate the feasibility

Thank you

Contacts

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