

# AI and your senses

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# AI and speech assistance

Case study: ALS patient

Uses implanted BCI (Brain-to-Computer Interface)

[Youtube Video](#)

Short Article:

# Hearing Aids

‘Across 2025–2026, AI in hearing aids is moving toward real-time, context-aware sound processing using deep learning, with the biggest gains in speech clarity in noisy environments and reduced mental effort for users—though truly adaptive, fully “intelligent” systems are still in progress.’

Add-ons: Personalized audio augmentation, it can detect if the wearer has fallen, you can incorporate other health information into the device.

(Reading from Mayo Clinic)

# Artificial Nose

- Device can continually “sniff” the air, looking for dangerous chemicals
- Device might help people who have lost their sense of smell.
- One study estimated that people can differentiate between 80 million and one trillion different scents when paired up (distinguish one from another).
- Uses a sensor array followed by a neural network.

(See the short Science article)

# Artificial tongue

- Similar to an artificial nose, it uses a sensor array, followed by a neural net.