ACCESIBILITY

TRACK ONE

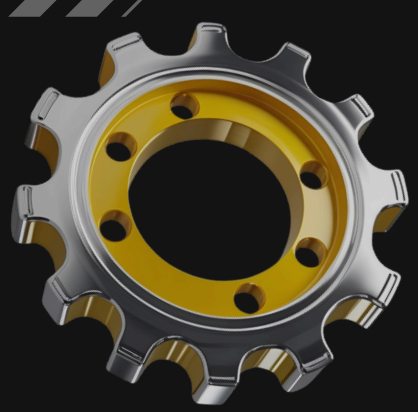
UNSW Societal Impact of AI Symposium *presents*

AIP:

What will you prompt for progress?

UNSW SYDNEY | FOUNDERS

FOUNDERS.UNSW.EDU.AU



Why this matters

- 1 in 6 people globally live with a disability (WHO).
- Most apps assume “eyes, ears, hands” work fine. They don’t for millions

Problem Statement

How might we design AI-powered interfaces that better serve people with disabilities or different communication preferences?

Deliverables

Technical: Demo link and pitch deck.
Non-technical: Live website and pitch deck

To get you started

Existing examples of active progress

- **Microsoft Seeing AI:** narrates the world for visually impaired users.
- **Google Project Relate:** speech recognition tuned for people with non-standard speech.
- **Voiceitt:** real-time translation of disordered speech into standard speech.
- **Be My Eyes** (**with GPT-4V**)**:** blind users get AI-driven scene descriptions.
- **OpenAI’s Whisper:** strong ASR, including accents and noisy environments.

Datasets

- **Common Voice** (**Mozilla**)**:** diverse open-source speech dataset.
- **LibriSpeech or Speech Accent Archive:** useful for training on varied pronunciations.
- **EMOTIC dataset:** images annotated with emotional states
- **W3C WAI resources:** accessibility guidlines
- **AI4Bharat** / **Indic TTS datasets:** TTS for Indian languages & accents.