Uses SST along with
Spraker recognition

- SST (sprech to text) = input is spoken andio 7 output: text o Goal: convert human sproch into text 1) Andio capture · Milrophone records andio - Sound Wares sampeled (Ex 16KItz) -> Storrd as a warr form 2) Feature Extraction · Raw andis is too messy for procuessing directly so its transformed into Features · Common: MFCC (Mel Freguency Copstral Coefficients) - a way of 3 regressing sound that matches human hearing sensitivity · think of it as: contensing sound into a compact finger print for cach small 3) A constic model . Maps short andio frames -> Phonemers (bacis sound units in language) · old methods: HMMs + GMMs . Modern mithod: CNN, RNN, transforms 41 Larguage model · helps genss the most probable segmence of mords Ex: usustic model; "recognize speech" raw model ortyot: "wroch a nice brach"

Then the Model picks the more likely option 5) Decoading: combines a contic and language modes to produce final text - Moder Advancements Ex whisper > End-to-End models: skip phoneme steps, directly may audio -> trxt using archetectures 1:100 Multilingur! Model trained on many languages est once Robustness: Noise suppression, speaker seperation, Liarization (who said what) Scanned with CamScanner