

Part A: Azure Custom Speech

speechRecognitionEndpointId:

"758aa8a0-93d1-4aa7-a377-28179ce8881b"

Regarding the Automatic Speech Recognition, when I spoke some names, the recognition made the following misrecognition.

- 1) Kranichfeld was recognised as Chronicfeld. {"Confidence":0.16838564}
- 2) Fredmund was recognised as Friedman. {"Confidence":0.48823994}
- 3) Asad was recognized as Azad. {"Confidence":0.5843059}
- 4) Riyadh was recognized as Riyadh. {"Confidence":0.4893007}

In my opinion, these problems can be solved by training the recognition model with these misrecognition names. Also, I could not pronounce the 'mund' and 'man' clearly so I think that's why Automatic Speech Recognition cannot recognize Fredmund correctly. At the same time, I think that all these names are sophisticated to pronounce for me.

I used the Pronunciation and Plain text data to training speech datasets. After training and deploying the custom speech model. Kranichfeld, Fredmund, Asad and Riyadh can be recognized correctly with a higher confidence score.

- 1) Kranichfeld
{"confidence":**0.919089674949646**, "lexical": "Kranichfeld", "offsetInTicks": 62900000, "offset": "PT6.29S", "durationInTicks": 16700000, "duration": "PT1.67S"}
- 2) Fredmund
{"confidence":**0.9439952373504639**, "lexical": "Fredmund", "offsetInTicks": 155600000, "offset": "PT15.56S", "durationInTicks": 13300000, "duration": "PT1.33S"}
- 3) Asad
{"confidence":**0.9308133125305176**, "lexical": "Asad", "offsetInTicks": 250400000, "offset": "PT25.04S", "durationInTicks": 7500000, "duration": "PT0.75S"}
- 4) Riyadh
{"confidence":**0.6196063160896301**, "lexical": "Riyad", "offsetInTicks": 378200000, "offset": "PT37.82S", "durationInTicks": 12600000, "duration": "PT1.26S"}

