This report examines the confidence scores for various names, places, and scientific terms that are known to be challenging for Automatic Speech Recognition (ASR) systems.

2. Observations on Confidence Scores

Category	Word/Phrase	Pronunciation	Confidence Score	Observations
Difficult Names	Shuyu	"SHOO-yoo"	[0.0673]	The system struggles with the "yu" sound.
	Gerlof	"YER-lof"	[0.139]	The "G" pronounced as "Y" causes misrecognition.
	Mihaela	"Mee-ha-EH-la	[0.176]	The transition between vowels affects confidence.
	Eleni	"Eh-LEH-nee"	[0.049]	Somehow vowels affects confidence.
	Seoyoung	"Suh-young" (서영)	[0.045]	Korean pronunciation of "Seo" is misinterpreted.
	Shafqat	"Shuff-kaht"	[0.155]	The soft "t" in "qat" causes errors.
Fictional Places	Westeros	"WES-ter-ohs"	[0.075]	Fictional names are often missing in training data.
	Rivendell	"RIV-en-dell"	[0.0553]	Recognized slightly better due to phonetic similarity.
	Azkaban	"AZ-ka-ban"	[0.0467]	Higher recognition due to pop culture exposure.
	Ljubljana	"LYOOB-lyah-nah"	[0.496]	Non-English phonemes reduce confidence.
	Reykjavík	"RAY-kya-veek"	[0.1159]	Special Icelandic characters affect accuracy.
Scientific Terms	Tardigrade	"TAR-di-grade" / "TAR-di-grad"	[0.2842]	Recognition varies depending on pronunciation.
	Quetzalcoatlus	"KET-zal-KO-at-lus"	[0.0853]	Complex syllables cause major issues.
	Basalt	"Buh-SAWLT" / "BAH-salt"	[0.0642]	Regional variations in pronunciation impact score.