

Speech Commands: A Dataset for Limited-Vocabulary Speech Recognition

SUMMARY

Speech Commands: A Dataset for Limited-Vocabulary Speech Recognition" presents a dataset designed for training keyword spotting models that recognize specific spoken words in noisy environments. It emphasizes efficient, small-footprint models suitable for on-device speech recognition. The dataset includes collection methods, evaluation protocols, and baseline results, promoting reproducibility and comparability of accuracy metrics. This resource is particularly valuable for applications requiring quick, energy-efficient voice commands with minimal false positives from background noise or unrelated speech. The paper also highlights the dataset's relevance for hardware manufacturers and machine learning researchers.

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