Conversational AI: Speech Processing and Synthesis

(UCS749)

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Summary

The paper titled "Speech Command Recognition with Convolutional Neural Networks" delves into the application of CNNs for recognizing spoken commands. It introduces a comprehensive dataset of audio recordings containing various spoken words, specifically designed for voice-controlled systems. The study illustrates how CNNs, with their ability to effectively capture temporal and spatial patterns in audio data, achieve remarkable accuracy in classifying simple voice commands. This research provides a strong foundation for the development of voice-activated technologies, highlighting the potential of CNNs in enhancing the performance of speech recognition systems and paving the way for advancements in hands-free, voice-driven interfaces.

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