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(57) Abstract :

The present invention discloses a cloud-supported platform for automated real-time language translation. The system comprises a user interface unit (101), speech recognition module (102), NLP engine (103), translation engine (104), adaptive learning module (105), security layer (106), and output delivery unit (107). Leveraging cloud computing, artificial intelligence, and distributed microservices, the invention enables scalable, secure, and low-latency translation of speech, text, and documents across multiple languages. Experimental validation confirms high accuracy and performance, making the system suitable for enterprise, healthcare, education, and government applications.

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