Company Introduction

Aizac

2025

Business Area
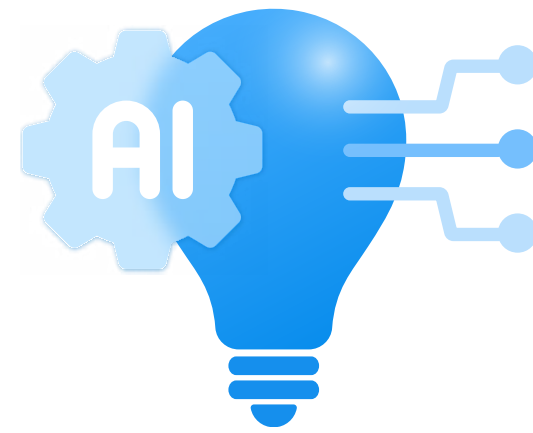
Development of Voice Recognition AI Engine Densper™

Alzac possesses proprietary expertise in developing AI voice recognition engines. By collecting and training data from global standard medical terminologies and Korean dental-specific datasets, we enhance domain specialization. We also optimize various STT functionalities, such as speech recognition, speaker diarization, and noise cancellation, to deliver tailored solutions for medical environments.

Showcasing Various Products at Exhibitions

Alzac Inc. was established in 2024. We have developed products suited to North America and Korea market, such as AI Perio Note, an AI-driven periodontal examination solution with voice control for dental clinics, showcased at GNYDM 2024, GAMEX 2024 and other exhibitions.

Business Area

AI-Based Medical Solution Provision

Alzac boasts world-class AI R&D capabilities and a deep understanding of cutting-edge AI technology trends. Our AI medical solutions streamline repetitive tasks, enabling healthcare professionals to focus more on patient care.

Digital Healthcare Service

Alzac provides AI-based digital healthcare services, including **PHR*** for not only hospitals and medical professionals but also the general public. Alzac's technology leads innovation in the healthcare market by creating customized medical environments tailored to each institution and delivering personalized services to patients.

*PHR: Personal Health Records

Proprietary Technology

Dental Terminology Dataset

- Pre-training was conducted using over 16,000 global medical standard terms, including SNOMED.CT, and approximately 230,000 phrases collected from dental practices in both speech and text formats.

Real-Time STT and TTS Conversion

- Advanced Streaming STT & TTS technology ensures high recognition rates for medical terminology.

- Supports real-time content verification with timestamp separation by phrase/context, along with automatic spelling corrections.

Speech Recognition and Detection of Spoken Content

- Equipped with **VAD*** modules to automatically analyze spoken content.

- Features speaker recognition technology to detect speakers and distinguish conversations by individual speakers.

Automated Documentation through Speaker Diarization

- Identifies speakers in audio files involving multiple participants through **Speaker Diarization**.

- Based on separated voice data, generates AI-powered documentation tailored to medical environments.

High-Accuracy of Voice Control

- Our advanced voice recognition technology is capable of handling not only command recognition but also **NLU***.

- With noise-canceling technology, Densper™ maintains consistent performance even in noisy environments.
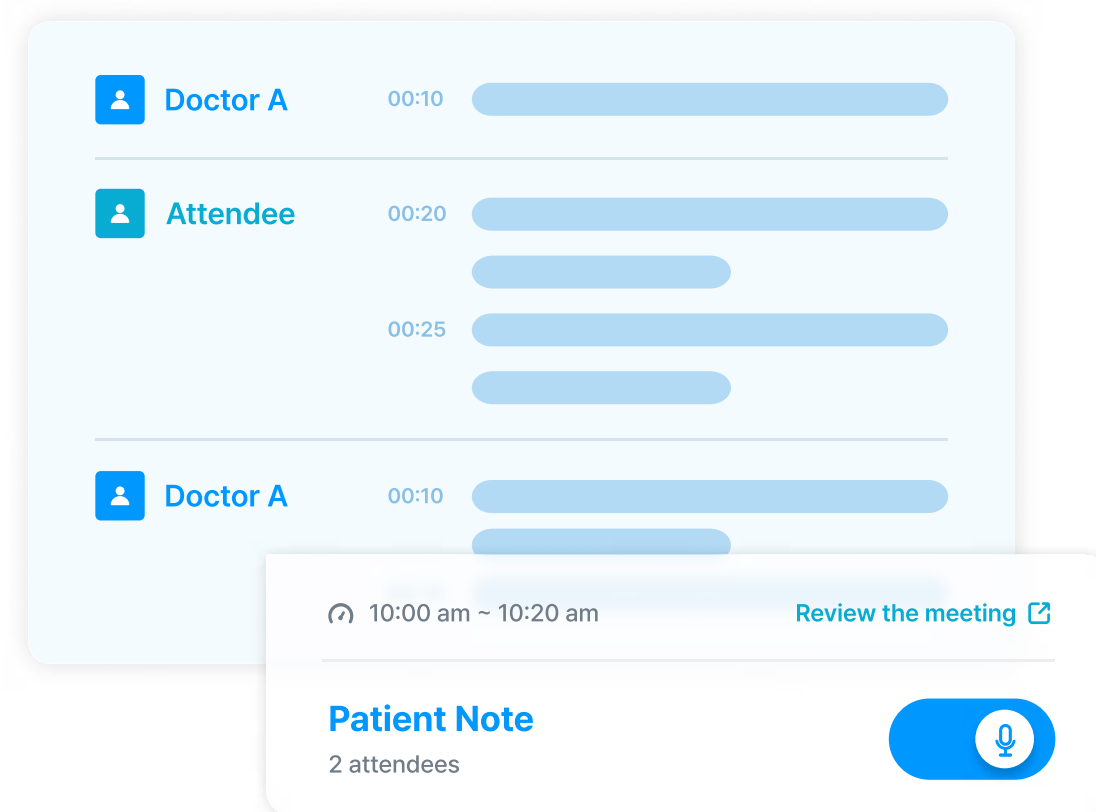
Multilingual Interpretation

- Provides transcription and translation for 92 languages worldwide through **NMT***.

- Ensures highly reliable output with real-time language detection when input and output languages are specified.

*VAD: Voice Action Detection | ***NLU:** Natural Language Understanding | ***NMT:** Neural Machine Translation
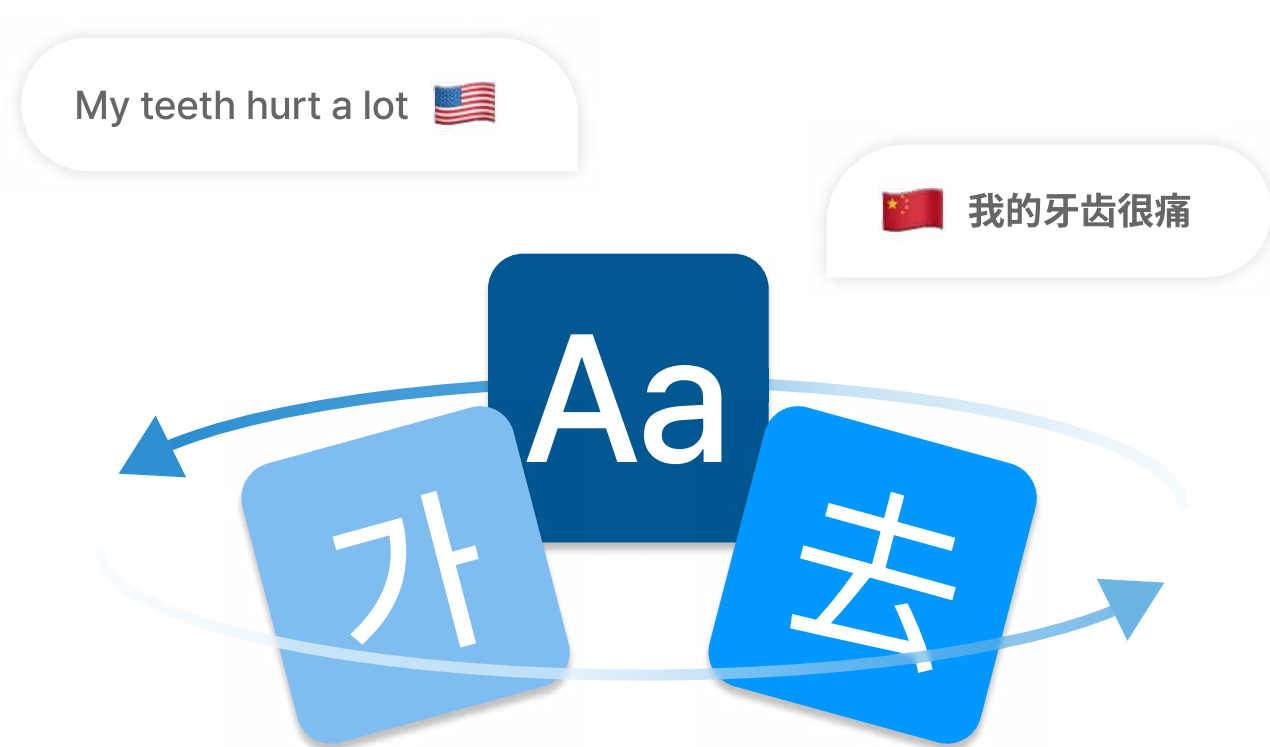
Solution

Generative AI Solutions for Managing Voice Records

An AI meeting assistant tool that utilizes speech recognition, speaker diarization, NMT, and more
for managing voice records in various medical scenarios such as consultations, seminars, and international conferences.

AI Meeting Assistant
Voice record management tool

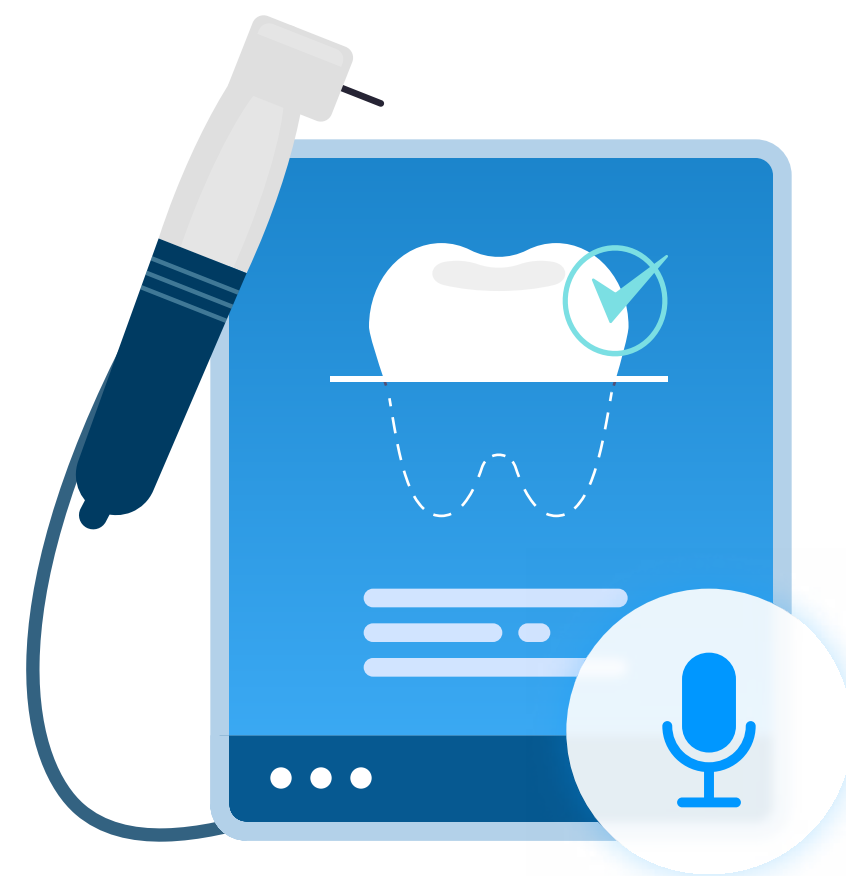### Global Translation Services
To help overcome language barriers

Solution

AI Solutions Enhancing Efficiency for Medical Professionals and Hospitals

Hands-free voice control solutions and AI-powered automated documentation that streamline electronic medical record tasks, enabling medical professionals to focus on patient care.

Hands-Free Voice Control
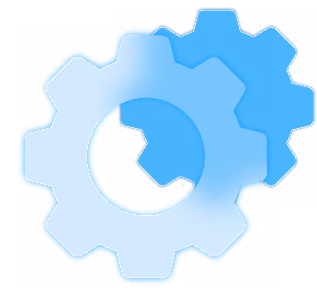During surgery and X-ray reading

Improving Work Efficiency with AI
Automatic formatting of text, etc.
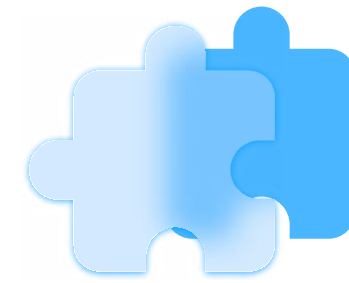
Solution ——

Solution Delivery Models

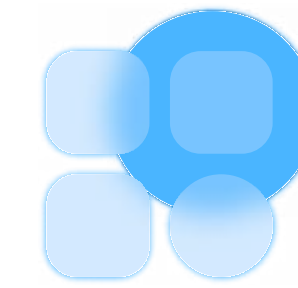Flexible service delivery models tailored to the needs of enterprise customers.

On-Premise

Cloud Service

Plugin

Application

Aizac

AI for Hospital

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