

Speech Translation



Overview

JioCloud Speech Translation Service enables real-time or batch conversion of spoken audio into translated text—across Indian and English language pairs. At the core is a multistage AI pipeline that first transcribes speech with high accuracy, then translates the text using models tuned for Indian languages. The system handles mixed-language input, regional accents, and context-sensitive phrasing—making it practical for real-world use. You can upload samples, preview results in a live playground, and integrate the service via secure REST APIs. Everything is managed through a self-service dashboard, with usage-based pricing and real-time visibility into consumption. It's a scalable, developer-friendly way to automate speech translation—without the complexity of stitching together separate tools.

Key Features

- **Indian language coverage**
Translate speech between Hindi, Tamil, Bengali, Telugu, Kannada, Marathi, Assamese, Oriya, and English—in either direction.
- **Multistage AI pipeline**
Combines speech recognition and machine translation—tuned for Indian phonetics and context.
- **Real-time or batch mode**
Use for live call translation or process recorded files as needed.
- **Web-based playground**
Test voice samples, preview translated output and validate language handling before integration.
- **API-based integration**
Secure REST endpoints make it easy to embed speech translation into apps, IVRs, CRMs, or learning platforms.
- **Self-service management**
Provision, pause, scale, or delete services instantly from the dashboard.
- **Transparent billing**
Pay per audio minute and translation output—with real-time tracking and credit-based controls.

Benefits

- Accurate speech-to-text and language translation in one integrated workflow.
- Support for Indian languages, accents, and dialects with high reliability.
- Faster rollout of multilingual support across call centers, apps, and platforms.
- Preview results before deployment using a live testing environment.
- Self-service provisioning and billing visibility—no support tickets needed.
- Scalable translation with no upfront licensing or infrastructure cost.

Supported Language

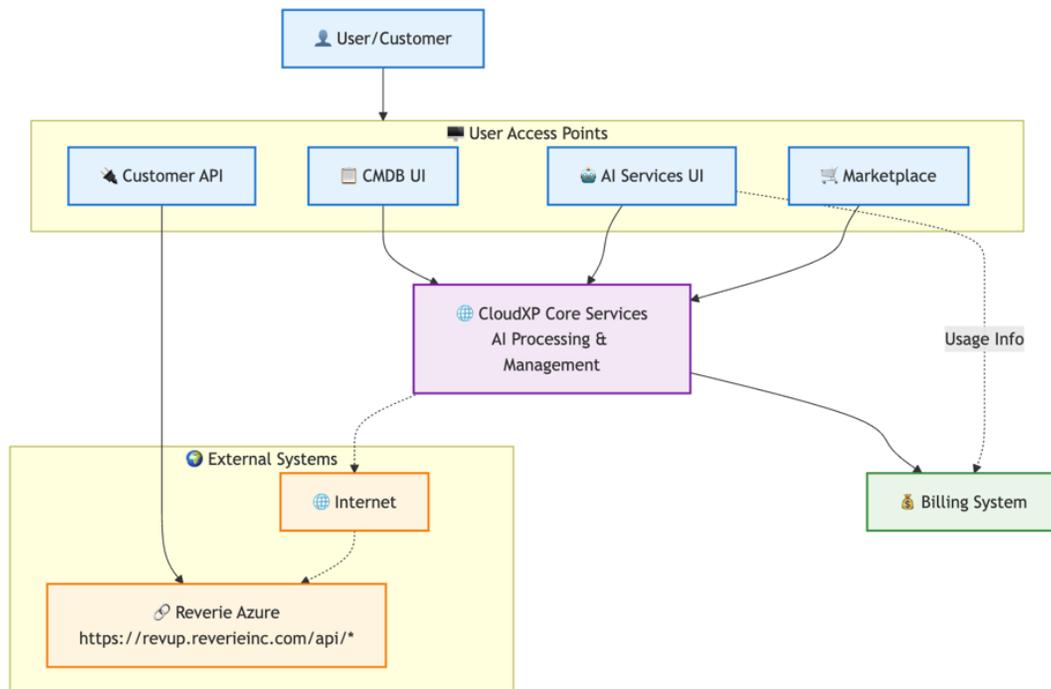
Language	Direction
Hindi	Hindi ↔ English
English	English ↔ Other
Assamese	Assamese ↔ English
Bengali	Bengali ↔ English
Gujarati	Gujarati ↔ English
Kannada	Kannada ↔ English

Language	Direction
Malayalam	Malayalam ↔ English
Marathi	Marathi ↔ English
Odia	Odia ↔ English
Punjabi	Punjabi ↔ English
Tamil	Tamil ↔ English
Telugu	Telugu ↔ English

Technical Specifications

Category	Details
Translation Type	Speech-to-Speech (Audio In Text Out)
Input Format	Audio Files
Output Format	text
Access Protocol	REST API over HTTPS
Authentication	Bearer Token
Average Latency	-
Rate Limiting	Tier-based; adjustable quotas available
Web Playground	Real-time speech input and audio playback
Deployment Model	Fully managed SaaS
Billing Model	Per-second audio consumption-based pricing
Security	HTTPS; no audio or transcript retention

Architecture Diagram



Use Cases

- Live call translation for contact centers**
 Support agents handle calls in regional languages like Hindi or Tamil. Translated transcripts in English appear in real time—enabling faster support without needing region-specific staffing.
- Edtech Course Localization**
 Online platforms can translate English lectures into Indian languages—for example, translating spoken lectures into Bengali or Tamil for regional learners.
- Speech translation for government and legal compliance**
 Public helplines and grievance portals can log calls received in local languages as translated English transcripts—ensuring traceability, consistency, and compliance.