Case Study

Techverx

Transly.ai

Advanced machine learning models for enhanced audio transcription

Team Composition:
3 Senior Engineers,
1 Project Manager

Project Duration:
6 months (fixed scope)
& ongoing support phase

Tech Stack:
React, Python, Fast API, Azure, Next. Js

Project Overview

Transly.ai, built by Techverx, offers smart, cost-effective transcription using AssemblyAI, later enhanced with FasterWhisper and SpeechBrain. With serverless infrastructure, it delivers scalable, efficient, and future-ready audio-to-AI interaction.

Business Challenges

- **High Costs & Limited Capabilities:** Existing tools were expensive and lacked flexibility for advanced interaction.
- **Machine Learning Integration:** Needed a scalable, intelligent solution with high transcription accuracy and robust diarization.
- **User Interaction Design:** Building a platform with a friendly UI/UX that supports both transcription and AI-powered chat posed a complex design and integration task.

Solutions Delivered

- **FasterWhisper Integration:** Transitioned to a self-hosted FasterWhisper model for transcription with enhanced cost efficiency and accuracy.
- **SpeechBrain for Diarization:** Enabled speaker tracking, improving clarity in multi-speaker audio.
- **GPT-Powered Chat Interface:** Integrated OpenAI GPT to support interactive features like summarization and Q&A.
- **Embeddable Chatbots:** Developed customizable, embeddable chatbots for external websites, expanding the platform's usability.

Results & Impact

- **Reduced Operational Costs** via serverless architecture
- **Advanced ML Integration** for transcription and interaction
- **Interactive Chat UX** with embedded AI chatbot support
- **Futureproofed** and Scalable Architecture

Conclusion

- **Transly.ai, engineered by Techverx, is a next-gen AI transcription and chatbot platform** redefining industry standards with cost-efficiency, ML accuracy, and user-focused design—serving businesses, legal, education, and content sectors.