



BrahmaX 1.0



Problem Statement:
AI-Powered Language Tutor – Build an AI tutor that helps students learn new languages through real-time translation, quizzes, and pronunciation feedback using Azure Translator API.



Team Name:
TechMatrix Solvers



Team Leader Name:
Abhay Gupta



Institute Name:
Shri Ram Institute of Technology Jabalpur



Theme Name:
AI MultiLingo



Team Leader Email ID:
contact2abhaygupta@gmail.com

www.codecrax.com





Team TechMatrix Solvers



[Aditi Lakhera](#)



[ABHAY GUPTA](#)



[Mayank Das Bairagi](#)



[Aditya Vishwakarma](#)

-



BrahmaX 1.0



Problem Statement

TechMatrix Solvers

Problem Statement EdTech

E1. AI tutors and content recommendation systems: Intelligent tools that provide personalized guidance and resources, enhancing the learning process.

SOLUTION

AI-Powered Language Tutor: Develop an AI tutor focused on language acquisition. Leveraging the Azure Translator API, this tool will assist students by offering real-time translation, creating interactive quizzes to test comprehension, and providing instant pronunciation feedback.



Delhi CEO takes a dig at Bengaluru's Kannada language issue in hiring post: 'Delhi NCR is better'

By Samra Jain

Dec 20, 2024 07:38 AM IST

Delhi NCR-based CEO Vikram Chopra has sparked a controversy with his hiring post that took a dig at Bengaluru's language issue.

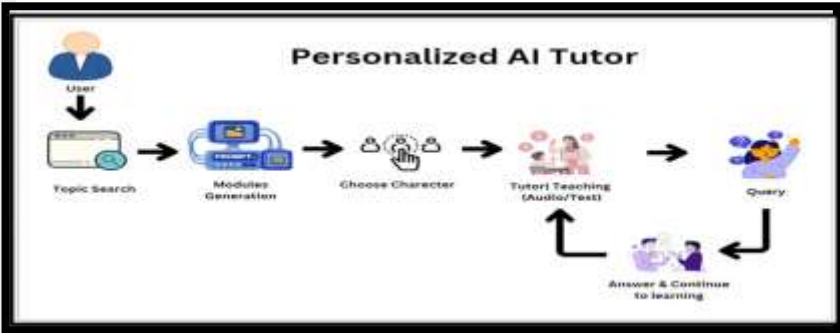
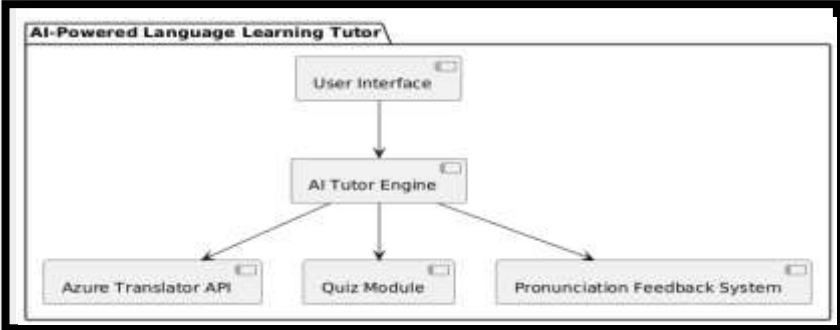
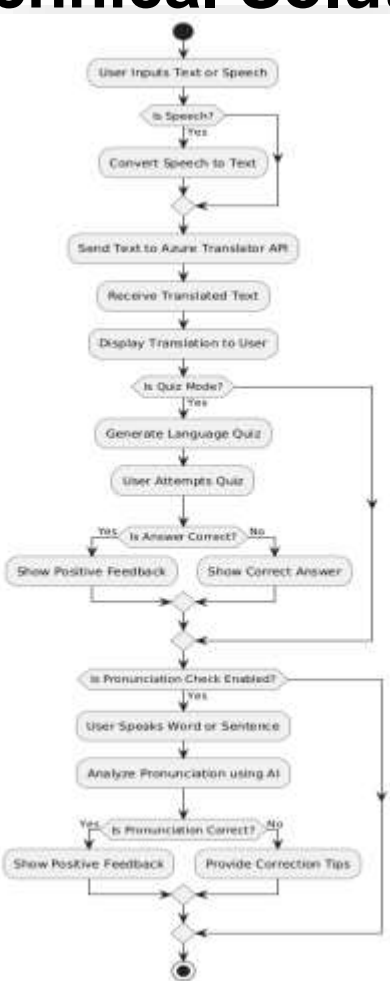
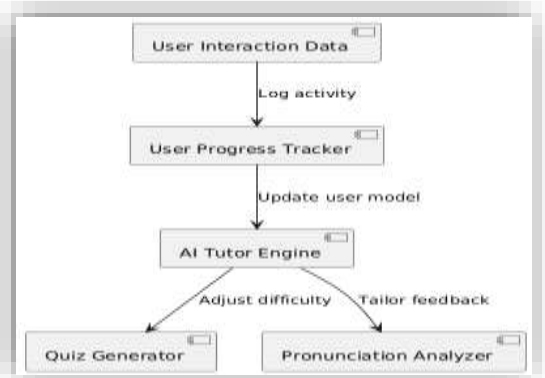
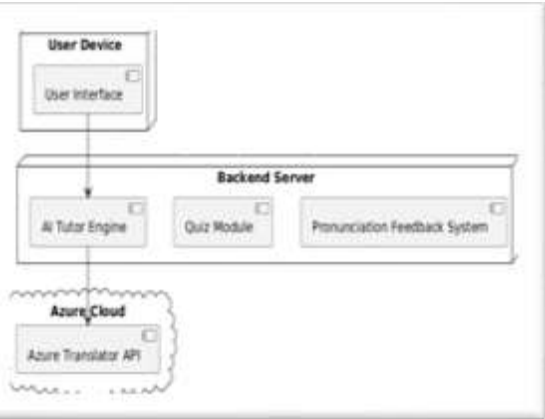
Still can't speak Kannada after years in Bengaluru?

It's OK.
Aa jao Dilli



TechMatrix Solvers

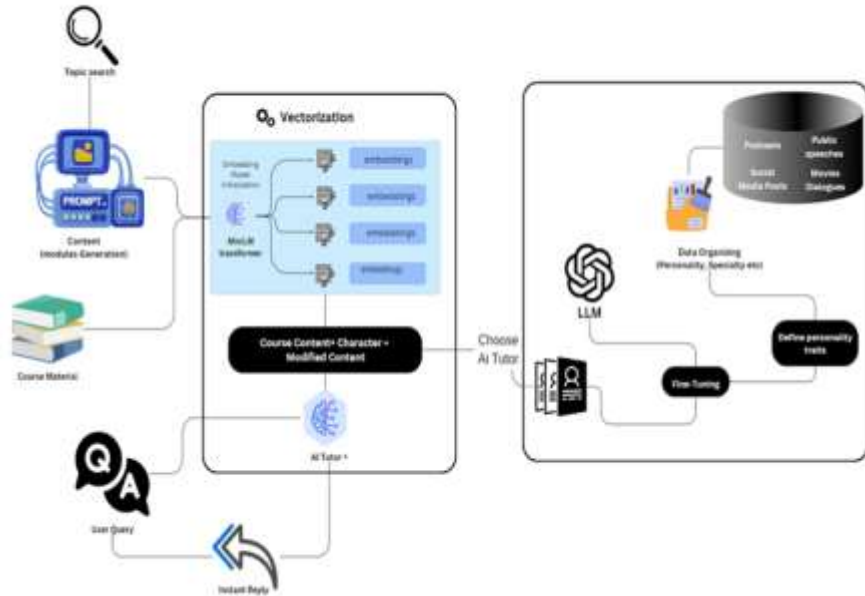
Technical Solution





Use Cases And Market Reach

TechMatrix Solvers



Market Scenario of AI Tutoring Management Software



30%
increase in
student engagement
with AI-driven tutoring
system development.

(EdTech Magazine)

80%
reduction in the time
required for grading and
assessment with AI tutor
systems.

(EdSurge)

77%
of educators believe
that AI can help
personalize learning
for students, improving
learning outcomes.

(EdTech Magazine)



[Abiads/AI-MultiLingo: TechMatrix Solvers](https://github.com/Abiads/AI-MultiLingo)


BrahmaX 1.0



Future Integration

TechMatrix Solvers

Feature (#)	Core User Benefit	Example Technology/Platform
1. Voice Assistant Support	Learn conveniently, hands-free	Alexa, Google Assistant
2. AR/VR Immersion	Practice in realistic, immersive scenarios	Apple Vision Pro, VR Headsets
3. Multimodal Learning	Understand concepts better through varied inputs	Text, Speech, Image/Video Analysis
4. Adaptive AI	Receive a truly personalized learning experience	DEEPSEEK AI (or similar)
5. Blockchain Certification	Get secure, verifiable proof of skills	Solana, Ethereum
6. Gamification	Stay motivated and engaged through fun challenges	Leaderboards, Badges, Rewards
7. Integration with LMS	Track progress within existing	Moodle, Coursera



8. Sentiment Analysis	Experience less frustration, smoother learning	Emotion AI, NLP
9. Real-Time Group Learning	Learn socially and collaboratively	AI-Facilitated Chat/Video Rooms
10. IoT Smart Devices	Improve specific skills like pronunciation	Smartwatches, Wearables



TechMatrix Solvers

Target language: Japanese

Prior knowledge: I've done 100 lessons on duolingo, so I know words like
hello, goodbye, some sentences like where is, my name is, some colors, how
to say where and there

Target knowledge: Enough to be able to enjoy a three week vacation`;



Why Azure AI Speech?

Out of the text-to-speech solutions I tried, this was the only one I was able to get to produce good bilingual results within a single paragraph, by specifying language with the Speech Synthesis Markup Language. As a bonus, generating all the lessons during testing and finalization (several hundred lessons, 4-5 hours of conversation) was well within the Azure free tier

← [Watch The Video](#)

Credits

Abhay Gupta

TechMatrix Solvers

Team Lead

This is Embedded Video in PPTX
Turn on Slideshow Click on Above video

BrahmaX 1.0