



# MULTI-LINGUAL SPEECH CHATBOT

● NEOSTATS

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# CORE FUNCTIONS & CAPABILITIES

## PRIMARY FUNCTIONS

### Booking Management System

- Room and table reservations
- User information extraction
- Automated confirmation system

### Multi-lingual Support

- English, Arabic, Chinese and other language capabilities
- Switch between languages in real time
- Multi-lingual support in both text and voice queries

### Speech Processing

- Voice command recognition
- Text-to-speech responses
- Natural language understanding

# TARGET USERS

## PRIMARY USERS

### Hotels and Restaurants

- Automated customer service
- Streamlined booking processes
- Reduced operational costs

### Travel Agencies

- Seamless booking integration
- Enhanced client services

### End Customers

- Convenient reservation system
- Language-flexible interaction
- Immediate response system

## VALUE PROPOSITION

- Improved accessibility through multi-language support
- Enhanced user experience via voice commands
- Valuable customer data collection



# TECHNICAL FUNCTIONALITIES

## KEY TECHNICAL FEATURES

### Speech Technologies

- Speech-to-text conversion
- Text-to-speech synthesis
- Multi-lingual processing

### Data Management

- Azure SQL database integration
- PDF document processing
- Secure information storage

### Response System

- RAG chain implementation
- Context-aware responses
- Dynamic information retrieval

# SYSTEM BENEFITS & IMPACT

The Multi-lingual Speech Chatbot represents a sophisticated solution for modernizing hotel and restaurant booking operations. By leveraging cutting-edge Gen AI technologies- it delivers a seamless, automated booking experience.

## VALUE ADDITION:

- The system proves to be an invaluable tool for hotels, restaurants, and travel agencies, effectively bridging the gap between traditional booking systems and modern customer expectations.
- Through its robust architecture and user-friendly interface, it demonstrates how technology can transform hospitality operations while maintaining service quality and efficiency.



CHAT BOT