



## MULTI-LINGUAL SPEECH CHATBOT

NEOSTATS

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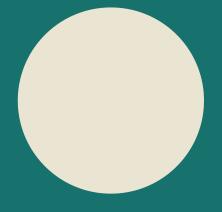
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## CORE FUNCTIONS & CAPABILITIES

#### **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.