

# LinguAI - Multilingual AI Assistant in Minutes

*AI Pinnacle Case Study: how we built [linguai.aipinnacle.pk](https://linguai.aipinnacle.pk) - a smart, multilingual voice-and-text assistant that fetches real-time data from websites and files, available 24/7.*

## About LinguAI

LinguAI (<https://linguai.aipinnacle.pk>) lets any business launch its own AI assistant in minutes. It speaks, listens, understands, and fetches real-time answers from your website and uploaded files - available 24/7.

## What LinguAI does

- Voice-activated assistant: speak naturally and get real-time spoken responses
- Multilingual conversation that switches languages mid-thread
- Ingests websites, PDFs, and knowledge bases for grounded answers
- Embeds on any product as a widget, mobile SDK or API
- Admin console at <https://linguai.aipinnacle.pk/admin/login>

## Where LinguAI is deployed

Deployed across multiple AI Pinnacle products and partner brands including TableOp, Ethical Freelance, Cleaners Compare, ScanMyLaundry, and AKMart LLC.

## Architecture

- Speech-to-text: Whisper-class ASR with multilingual dialect tuning (including Khaleeji Arabic)
- LLM routing layer that selects the right model for cost vs. quality per intent
- Retrieval-Augmented Generation (RAG) over the customer's site and uploaded files
- Vector store with chunking and metadata filters
- Text-to-speech with voice selection per language
- Guardrails: PII redaction, prompt-injection defence, refusal policies

*Result: enterprises ship a production AI assistant in days, not quarters - with multilingual support out of the box for English, Arabic, Urdu and more.*

## Why this matters for Gulf and global buyers

Gulf enterprises need Arabic-first conversational AI that respects regional dialects and right-to-left UX. LinguAI ships with native Arabic ASR, Arabic TTS voices, and an Arabic-aware retrieval pipeline - letting customers in Dubai, Riyadh, Doha, Kuwait City, Manama and Muscat deploy compliant, on-brand assistants.

## Stack

- Python services (FastAPI) for the orchestration layer
- React widget + mobile SDKs for embedding
- pgvector / Pinecone for retrieval
- Lovable AI Gateway and OpenAI-compatible providers for LLM routing
- Cloud-agnostic deployment (AWS, Azure UAE North, GCP)

## Visit & try

Live product: <https://linguai.aipinnacle.pk>

Admin login: <https://linguai.aipinnacle.pk/admin/login>

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