



# Museum Audio Guide

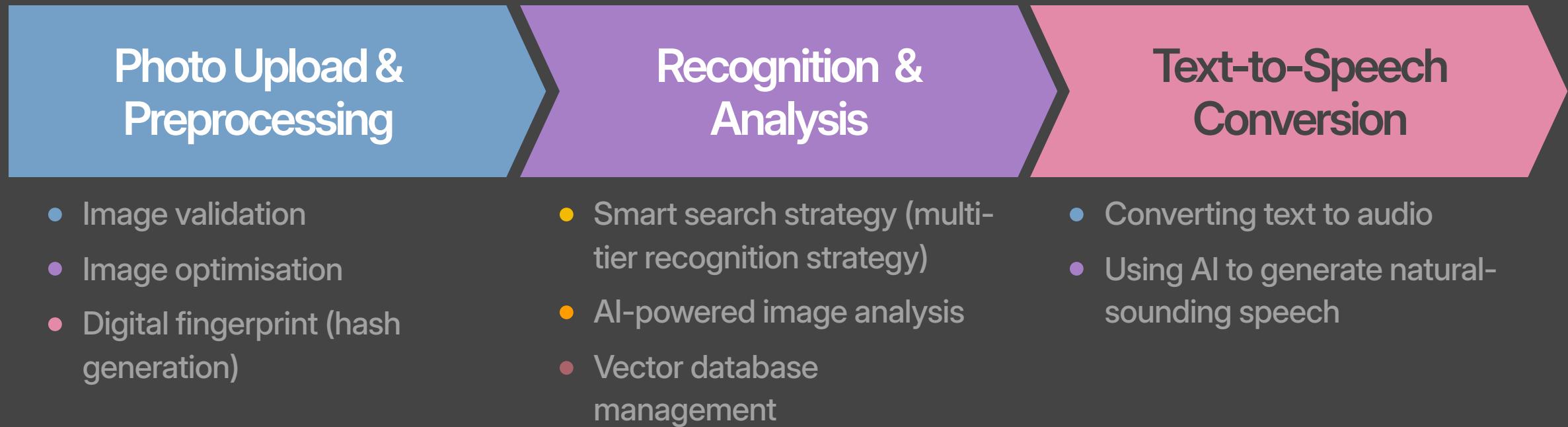
An AI-powered application that makes art accessible for visual impairments.



DEMO



# Flow & System Architecture



# Performance Optimisation

1

## Multi-Tier Recognition Strategy

- **TIER 1:** Perceptual Hash Cashing
- **TIER 1.5:** Pre-check
- **TIER 2:** Vector Search
- **TIER 3:** Vision API Fallback

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## Parallel API calls

- **Vision API:**
  - Metadata and description requested in parallel
  - Not one after another
- **TTS API:**
  - Both audio files generated simultaneously
  - Using ThreadPoolExecutor

Q+A PART

# Thanks for your attention!

Happy to answer your questions now.

QR to my LinkedIn --> --> -->

