Karthikeya Task 4: Multilingual Content Personalisation & Metadata Enrichment

Duration: 5 Days

Objective:

Expand the Vaani pipeline to support 20 languages (10 Indian + 10 global) via enriched metadata, voice tagging, and language-flexible publishing. No need to generate actual content yet—focus on infrastructure and simulation.

Components to Build:

1. Language Metadata Enhancer

- Auto-detect or simulate user language preference from a user_profile.json.
- Expand content metadata.json schema:
 - preferred languages: list
 - content language: auto-filled
 - voice_tag: e.g., "hindi_female_1" or "japanese_male_2"

2. Voice Tag Mapper

- Map content language to nearest available TTS voice.
- Fallback rules if specific TTS is unavailable (e.g., English default).
- Sample mapping:

```
{
   "marathi": "marathi_female_1",
   "german": "german_male_2"
}
```

3. Simulated Multilingual Preview Generator

- Extend publisher sim.py to show how the post would appear in a given language.
- Optional: dummy translations for preview (e.g., hardcoded strings).

4. Post Output Preview JSON

- Show:
 - Original post ID
 - Selected language
 - Selected voice
 - Platform preview

File/Folder Additions

Deliverables

- 5 multilingual post previews (different languages + platforms)
- language voice map.json and updated metadata fields
- JSON snapshots of post structure per platform with new language logic
- Optional UI mock: table showing platform + language + voice tag
- Short Loom/video walkthrough

Notes:

- Use placeholders for translations, no real NLP/LLM yet.
- No backend storage needed yet—just local JSONs and logic.
- Sets up ground for actual multilingual TTS/LLM integration in Task 5.