

NekoSpeak

Next-Gen AI Voice Engine for Android

100% Offline • Ultra Low Latency • Privacy First

Built by Sivasubramanian Ramanathan

Product Owner | Fintech & Digital Innovation




The Problem

Existing text-to-speech solutions on Android often force a compromise:

1. **Robotic & Flat**: Older offline engines sound artificial (`espeak`).
 2. **Privacy Invasive**: High-quality usually means sending data to the cloud.
 3. **Latency**: Waiting for server responses breaks the flow of reading.
- “ AI should assist us without compromising our privacy or patience.”

The Solution: NekoSpeak

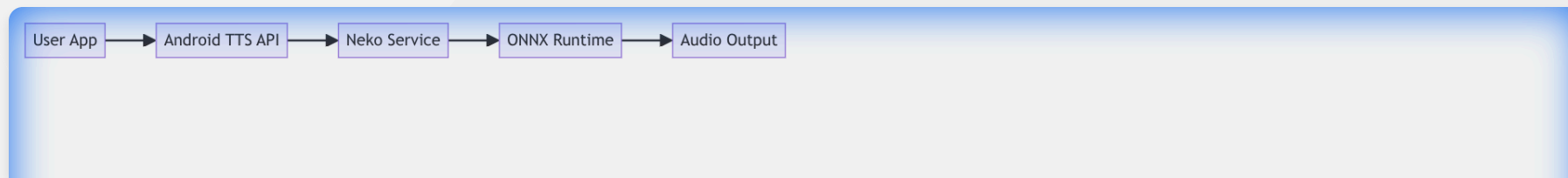
A drop-in replacement for the system TTS engine that brings **State-of-the-Art AI** directly to your device.

- **Triple Engine Core:**
 -  **Kokoro (82M)**: Human-level expressiveness.
 -  **Piper**: Fast, multilingual support.
 -  **Kitten (Nano)**: Ultra-lightweight for older reliability.
- **Privacy by Design**: Zero data leaves the device.
- **Universal Compatibility**: Works with @Voice, MoonReader, and accessibility tools.

Technical Engineering

Building for the "Edge" requires specialized architecture:

- **ONNX Runtime**: Quantized models (int8) for CPU efficiency.
- **Native C++ Bridge**: Custom JNI wrappers for `espeak-ng` integration.
- **Smart Batching**: Dynamic token buffering to balance latency vs. context.
- **Kotlin Coroutines**: Non-blocking audio synthesis pipeline.



Why I Built This



My background in **Fintech & Innovation** (ex-BIS Innovation Hub) taught me that the best products solve complex technical problems with simple user experiences.

- **Offline First**: Exploring trade-offs in model size vs. user experience.
- **Accessibility**: Making high-quality AI voices available to everyone, free of charge.
- **Curiosity**: Pushing the limits of what a mobile CPU can do without a cloud GPU.

About the Builder

Sivasubramanian Ramanathan

He/Him

Product Owner | Fintech, RegTech & Digital Innovation

Ex-BIS Innovation Hub Singapore | PMP | PSM II | PSPO II

I specialize in bringing structure to complex, early-stage ideas
and building products with real impact.

I'm Looking for My Next Role

I am open to opportunities in **Singapore** .

- **Roles:** Product Management, Fintech, Payments, RegTech, Digital Assets.
 - **Focus:** Building simple, safe, and genuinely useful solutions.
- “ Taking messy, real-world complexity and structuring it into reliable product experiences.”

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