

Yashowardhan Singh Tomar

VOICE AI ENGINEER | CONVERSATIONAL AI | STT/TTS INTEGRATION

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PROFILE

AI engineer focused on voice AI, conversational systems, and LLM-backed assistant workflows. Integrated TTS and STT models into PreCall AI, a production AI-powered calling workflow, and built a public voice-agent framework demo with provider adapters, streaming-style output, latency traces, batch scenarios, and evaluation reports. RLHF experience with xAI and Meta Llama 4 adds model-quality judgment for conversational behavior.

[Voice AI](#) | [Conversational AI](#) | [STT](#) | [TTS](#) | [LLM Routing](#) | [Latency Tracing](#) | [Python](#) | [Evaluation](#)

EXPERIENCE

Jr. AI / Data Science Engineer | Engineer Master

Sep 2024 - Jan 2025

- Integrated Text-to-Speech and Speech-to-Text models into PreCall AI, the company's AI-powered calling workflow.
- Worked across the practical gap between demo voice pipelines and production calling behavior, including provider integration and conversational flow concerns.
- Contributed to RLHF workflows for xAI and Meta Llama 4, evaluating model outputs for correctness, instruction following, clarity, and multi-turn behavior.
- Designed prompts and reviewed side-by-side responses, building judgment for conversational quality, failure modes, and response safety.

Business Development Associate | Byju's

2020 - 2022

- Managed high-volume B2C sales of online education products with weekly revenue targets.
- Developed consultative discovery, stakeholder communication, and objection-handling skills across a large customer base.

SELECTED PROJECTS

voice-ai-agent-demo

<https://github.com/yashowardhansinghtomar/voice-ai-agent-demo>

Python, provider adapters, streaming simulation, latency traces

- Built a local voice-agent framework with replaceable STT, assistant, and TTS boundaries.
- Added streaming-style response artifacts, per-stage latency traces, batch scenario evaluation, safety notes, and Markdown/JSON reports.

llm-evaluation-lab

<https://github.com/yashowardhansinghtomar/llm-evaluation-lab>

Python, RLHF-style scoring, failure tags

- Built a reusable evaluation workbench for scoring LLM responses, useful for conversational assistant quality review.

rag-evaluation-workbench

<https://github.com/yashowardhansinghtomar/rag-evaluation-workbench>

Python, retrieval/citation evaluation

- Evaluates whether assistant answers are grounded in retrieved evidence and correctly cited.

SKILLS

- **Voice AI:** STT/TTS integration, provider boundaries, conversational routing, latency tracing
- **LLM Quality:** RLHF, response evaluation, prompt design, multi-turn behavior review
- **Tools:** Python, OpenAI API, Groq, LangChain, Hugging Face, Ollama
- **Interfaces:** CLI tools, Streamlit, Gradio, Slack API

EDUCATION

Prestige Institute of Management & Research

Bachelor of Business Administration (BBA), Global Marketing & Brand Management | 2017 - 2020

CERTIFICATIONS

Data Analyst - Edubridge | Generative AI - Debugshala