

Abhishek Sagar Sanda

Applied AI Engineer

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Open to full-time roles — available now.

Interview Coach IVR: +1 (888) 805-6555

SUMMARY

Applied AI engineer building voice agents that answer real phone calls and retrieval systems that cite their sources. Most recently at AutoAce (YC F25) on the voice-agent OS for car dealerships — cut voice-loop latency 8.5s → 3.9s, backfilled dropped calls, and shipped a three-layer LiveKit fence in production.

EXPERIENCE

Applied AI Engineer — AutoAce (YC F25)

Jun 2026 — Jul 2026 · Boston, MA

- Built the voice-agent OS for car dealerships: telephony integration carrying live inbound calls end to end.
- Cut voice-loop latency 8.5s → 3.9s by parallelizing call startup, deduplicating graph fetches, and moving blocking TTS init off the async event loop.
- Backfilled 13 dropped calls into recoverable sessions and shipped a three-layer LiveKit fence so concurrent calls fail over instead of dying mid-conversation.

Developer — Elevance Health

Apr 2026 — Jun 2026 · Boston, MA

- Delivered .NET services for a Fortune 30 health insurer inside a regulated release process.

Teaching Assistant — Northeastern University (College of Engineering)

Sep 2025 — Dec 2025 · Boston, MA

- Supported a graduate generative-AI course for 50+ students: labs, grading, and office hours.

Research Software Engineer — Virtual Presenz Inc.

Sep 2024 — Dec 2025 · Shrewsbury, MA

- Built a YOLOv8 + GPT-4 multimodal pipeline reaching 85% detection accuracy across 70,000+ images.
- Reduced manual review effort by 60% by routing only low-confidence detections to a human.
- Cut chatbot response latency by 50%.

Dotnet Developer — HCL Technologies

Aug 2022 — Aug 2023 · Chennai, India

- Shipped and maintained .NET services in an enterprise delivery team across a one-year engagement.

Artificial Intelligence Intern — Blackbuck

Aug 2021 — Jul 2022 · Remote

- Year-long applied machine-learning internship building and evaluating models in Python.

Summer Intern — iAcademia

Apr 2020 — Oct 2020 · Hyderabad, India

- Seven-month software internship; first professional engineering role.

SELECTED PROJECTS

BitVoice Pay

A Bitcoin Lightning wallet you operate entirely through a phone call.

Python · Twilio Voice · LNbits · OpenAI · Railway · MIT Bitcoin Hackathon: 2nd place

Northeastern University Assistant v2.0

Retrieval over 80,000+ university pages, answering student questions with a cited source.

Python · FastAPI · Scrappy · ChromaDB · OpenAI · Ollama · Pages indexed: 80,000+

AI Interview Coach IVR

Call a number, run a mock interview, and get scored on how you actually spoke.

Node.js · Express · Twilio · MurfAI · GPT-4 · Postgres · Analysis dimensions: 4 per answer

Wyckoff Trading Assistant

A transformer that labels price action against Richard Wyckoff's market-phase method.

Python · PyTorch · Transformers · Vercel · Method encoded: Wyckoff phases

Manipuri ↔ English Translator

A transformer trained from scratch for a language pair with almost no parallel corpus.

PyTorch · SentencePiece · Jupyter · Evaluation: BLEU vs. baselines

AI Dynamic Chatbot

A configurable chatbot built on the Roli.AI runtime, wiring conversational state and live model responses into a deployable web client.

JavaScript · Roli.AI runtime · StackBlitz · Roli.AI Hackathon: Winner

SKILLS

Product surfaces: TypeScript / Next.js

Models & training: Jupyter / research, PyTorch, TensorRT

Retrieval & serving: ChromaDB, FastAPI

Voice & telephony: LiveKit, Twilio Voice

Backend: Python, .NET / C#

Infrastructure: Postgres / Supabase, Docker / CUDA

EDUCATION

MS, Information Systems

Northeastern University, Boston, MA · Graduated December 2025 · GPA 3.82 / 4.0

B.Tech, Electronics and Communication Engineering

Mahatma Gandhi Institute of Technology, Hyderabad, India · GPA 7.8 / 10

AWARDS & RECOGNITION

- **Outstanding Master's Student Award — Community Impact** — Northeastern University (MGEN Awards) (2026). One of four university-wide. Awarded for the Northeastern University Assistant, a faculty-sponsored retrieval system indexing 80,000+ university pages so students get answers with a cited source.
- **MIT Bitcoin Hackathon — BitVoice Pay** — Massachusetts Institute of Technology (2026). 2nd place. A Lightning wallet operated entirely through a phone call, built for people who own a basic phone but not a smartphone. Live dial-in: +1 (888) 805-6555.

- **MIT × Weights & Biases Multi-Agent Hackathon — Denial Defense** — MIT × Weights & Biases (2026). 3rd place. A multi-agent system for contesting insurance claim denials.
- **Murf.AI Coding Challenge** — Murf.AI (2025). Top-10 finalist. Built an AI interview coaching IVR on Murf.AI text-to-speech: callers run a mock interview by phone and get scored on speech rate, filler words and clarity.
- **Roli.AI Hackathon** — Roli.AI (2024). Winner. Built a dynamic AI chatbot on the Roli.AI platform, wiring conversational state and live model responses into a deployable web client.

PUBLICATIONS

- TensorRT optimization — co-authored paper — MIT IMPACT Symposium (2025). Co-authored work on TensorRT inference optimization, presented at the MIT IMPACT Symposium.