

# AMAN SHARMA

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**Summary:** Highly motivated and hands-on AI Engineer with strong competitive coding background, specializing in Voice Agents, real-time communication systems, and AI-powered automation. 2+ years of Python experience and 1+ years designing, implementing, and deploying conversational AI and agentic workflows for production. Deeply experienced in scalable voice AI solutions—leveraging frameworks like LiveKit, Twilio, and Plivo—for business transformation. Eager to drive next-generation digital experiences with seamless voice bot design, integration, and optimization.

## SKILLS

- ❖ **Conversational AI & Voice : LiveKit (Targeted)**, Voice Agents, ASR , TTS , LLM , RAG , Agentic Workflows, Twilio/Plivo Integration, Real-Time Communication (RTC) ,MCP .
- ❖ **Programming:** Python ( 2+ years experience), API Integration, Data Structures & Algorithms (DSA), Pandas, NumPy
- ❖ **Deployment & Tools:** Docker, Azure Cloud, CI/CD, Prometheus, Grafana, MongoDB, PostgreSQL .

## PROFESSIONAL EXPERIENCE

### Salesken.ai –

**Machine Learning Intern (On-site) | Bengaluru, India Sep 2025 – Present**

- ❖ **Voice Agent Development (Recivo.ai):** Led the development of **Recivo.ai**, a multi-channel **Voice AI Receptionist** platform with Twilio and Plivo integrations. Focused on **LiveKit integration** principles for managing real-time audio streams, agent workflow orchestration, and ensuring low-latency conversational responses, Implemented core features including automated **Lead Qualification**, dynamic Q&A retrieval, and **Google Calendar Event Booking**.
- ❖ Integrated a noise cancellation feature into the core product, leading to a 20% improvement in audio clarity, enhancing user experience and demonstrating commitment to **quality assurance** in AI solutions.
- ❖ **Conducted multiple proofs-of-concept (POCs) for 10-15 LLM models, evaluating their suitability and performance** under various input conditions to meet user needs, directly applying **prompt engineering techniques** and **AI assurance** principles.
- ❖ Managed LLM inference servers using cutting-edge tools like **VLLM and Triton (industry standard platforms)**, FastAPI, supporting high-throughput inference for critical applications.

### Marathon Trends Advisory Private Limited –

**Software Developer & Research Analyst | Mumbai, India May 2024 – March 2025**

- ❖ Revamped backtesting algorithms, reducing processing time by 67% through implementation of memoization, dynamic programming, and caching, demonstrating ability to **identify and address performance bottlenecks** in software solutions.
- ❖ Developed a finance-specific chatbot based on **RAG models with OpenAI embeddings, ChromaDB, and LangChain**, achieving 40% better response times and showcasing experience in **Generative AI solution implementation**.
- ❖ Developed a sentiment analyzer service that leveraged real-time scraped data to deliver actionable market insights with 90% accuracy, demonstrating experience in **testing and validating AI-infused applications**.

## EDUCATION

**Maulana Abul Kalam Azad University of Technology**  
India

| West Bengal,

**Bachelor of Technology (B.Tech) in Computer Science and Engineering**  
2023 | CGPA: 8.9

| Graduated:

**Relevant Coursework includes:** [Mathematics for Machine Learning: Multivariate Calculus\(coursera\)](#) , [A Crash Course in Data Science\(coursera\)](#), [AWS Fundamentals: Going Cloud-Native](#)

## PROJECTS

- ❖ [Interview Bot](#): Created an **AI-powered speech-to-speech interview bot** using Llama (LLM), PlayAI (TTS), and Whisper (ASR), allowing users to practice interviews for selected roles and receive immediate feedback, demonstrating **system design** and **building efficient programs/systems**.
- ❖ [Custom RAG](#) :Built a Streamlit-based **RAG application** using Groq LLM and ChromaDB to enable document-based Q&A over uploaded PDFs/DOCX with chunked vector search and semantic retrieval, showcasing **design fundamentals** and **problem-solving skills**.