ADITYA

AI Agent Engineer

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SUMMARY

I am an AI Agent Engineer with expertise in real-time conversational AI infrastructure and telephony-integrated voice systems. My experience involves designing production-grade AI agents tailored to hospitality automation. Additionally, as a published researcher in LSTM-based time-series forecasting, I focus on scalable AI architecture and low-latency voice pipelines to create efficient and proactive solutions

EXPERIENCE

AI Agent Engineer (Part-Time)

Torq Designs

📅 08/2025   📍 Karnataka, India

A leading company focused on AI-powered solutions, particularly in the hospitality sector

- Architected and deployed AI-powered hospitality communication infrastructure.
- Designed telephony-integrated AI voice systems for real-world inbound reservation calls.
- Integrated Plivo programmable voice APIs with LiveKit real-time streaming infrastructure.
- Engineered conversational workflows to interpret booking intent, dynamically check availability, capture structured guest data, and autonomously execute reservations.
- Achieved sub-500ms conversational latency for natural human-like dialogue.
- Implemented multi-turn dialogue orchestration with contextual memory persistence.
- Designed secure token-based session orchestration for scalable AI participation.
- Managed AI infrastructure deployment and hosting environments on AWS.
- Website: TorqAgents – https://torqagents.github.io/ai_website

EDUCATION

B.Sc. in Data Analytics

Dr. N.S.A.M. First Grade College

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KEY ACHIEVEMENTS

💬 **AI-Powered Hospitality Communication Infrastructure**

Developed a state-of-the-art AI voice automation platform that reduces manual tasks and enhances operational efficiency for the hospitality industry

SKILLS

GitHub	WEBRTC	AWS	Git
Python	C/C++	Java	Live Kit
Langraph	Flask		

PROJECTS

TorqAgents

📅 Date period

AI-Powered Hospitality Communication Infrastructure aimed at streamlining reservations and enhancing customer engagement

- Built and launched a production-grade AI voice automation platform for hospitality businesses
- Developed AI agents capable of autonomously managing inbound reservation calls end-to-end
- Integrated telephony, real-time audio streaming, and reasoning pipelines into a unified system
- Designed system architecture to reduce manual call-handling overhead and improve operational efficiency
- Deployed secure, scalable AI infrastructure for real-world hospitality operations
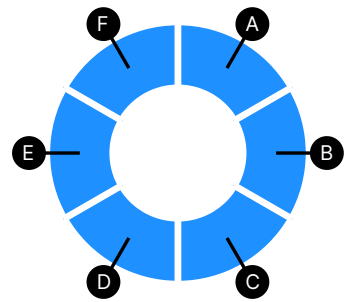
JD-Aware AI Screening Agent

📅 Date period

JD-Aware AI Screening Agent to improve candidate evaluations and streamline hiring

- Developed a Retrieval-Augmented Generation (RAG) system for structured candidate-role evaluation
- Engineered semantic retrieval pipelines for transparent and explainable scoring
- Designed modular ingestion architecture for scalable resume and job description analysis
- Implemented structured output validation to minimize hallucination and bias
- link:https://madityarao.github.io/Resume_web/

MY TIME

A Activity / Initiative
B Activity / Initiative
C Activity / Initiative
D Activity / Initiative
E Activity / Initiative
F Activity / Initiative