

ADITYA SINGHAL

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Education

Gati Shakti Vishwavidyalaya

B.Tech, Artificial Intelligence & Data Science (Transportation & Logistics)

- CGPA: 8.1

2025 – 2029

Vadodara, Gujarat

Experience

Divisional Railway Manager's Office, Jaipur

Summer Intern

May 2026 – Jun 2026

Jaipur, Rajasthan

- Rotated across Mechanical (C&W), Engineering, Signal & Telecom, Operating, and Electrical departments; gained direct exposure to railway signaling infrastructure and safety-critical system operations.

Projects

Dexel | Web Dashboard | Github

May 2026 – Present

- Built and operate a production Discord bot, hosted on Oracle Cloud, with **1,500+ users** and **15,000+ commands executed**, using a custom agentic tool-use harness that plans multi-step tool calls with dependency ordering and rolls back destructive actions on failure.
- Implemented **140+ tools** across **6 specialist subagents** with a **4-tier LLM fallback chain**, multi-provider BYOK AI (Gemini, OpenAI, Claude, Groq, OpenRouter), RAG-backed server knowledge base, image generation, and voice transcription.
- Built a PostgreSQL data layer (Supabase, asyncpg) with automatic reconnect/backoff on connection loss, per-guild rolling memory with per-user consolidation, across 30+ relational tables secured with row-level security.
- Shipped a self-hosted Lavalink music system and full engagement/moderation suite: giveaways, activity-based role tiers, auto-logging, content feeds, AI ticketing, invite tracking, and scheduled reminders.

Technical Skills

Languages: Python, Java, C, SQL (PostgreSQL)

AI/Backend: Agentic system design, PyTorch, discord.py, REST APIs

Systems & Infrastructure: Supabase, Docker, Linux, AWS EC2, Oracle Cloud, Lavalink

Competitive Programming: LeetCode (rating 1550+)

Certifications

NVIDIA: Building RAG Agents with LLMs

May 2026