Adarsh Singh Tomar

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Technical Skills

Languages: Go, JavaScript, Python, TypeScript
Backend Infra: FastAPI, Gin, Node.js, Express.js, REST APIs, Microservices, Docker, Redis
Databases: PostgreSQL, MongoDB, MySQL, Redis
AI / LLM:Ollama, LangGraph, FastAPI streaming (SSE), prompt engineering, structured LLM output (Pydantic)
Developer Tools: Git, Docker, Postman, Swagger/OpenAPI
Concepts: RESTful APIs, Microservices, JWT, Authentication Authorization

Projects

Cyber-Incident Post-mortem Assistant **Apr-May 2026**

- Built a full-stack incident post-mortem tool using FastAPI, asyncio, and aiosqlite, integrating a locally-hosted Ollama LLM (llama3.2) to transform unstructured on-call notes into structured, blameless post-mortems all on-premise.
- Engineered multi-layer LLM output reliability: JSON-mode inference with low-temperature (0.2) sampling for deterministic structured responses, regex-based JSON extraction as a fence-stripping fallback, and Pydantic v2 hard-gate schema validation as a strict pre-write barrier preventing any malformed record from reaching SQLite.
- Designed a complete REST API (analyze, history, fetch, export, delete) backed by SQLite persistence and dual-format export (Markdown + JSON) with auto-slugified filenames; system handles ambiguous, incomplete, and unstructured real-world incident notes without silent failures or invalid DB commits.

Competitor Research MCP **Feb-Mar 2026**

- Built a Python multi-agent competitive intelligence system where a coordinator LLM autonomously plans, delegates, and synthesizes rival research across specialized sub-agents covering web intelligence, news sentiment, and financial signals into structured executive briefings with strategic threat assessments
- Engineered async parallel orchestration supporting up to 12 concurrent LLM calls across 4 agents per competitor, with graceful partial-failure handling and robust structured-output parsing that recovers valid JSON from malformed local model responses under degraded conditions.
- Designed a provider-agnostic LLM abstraction layer enabling hot-swap between local Ollama and OpenAI-compatible APIs, backed by a normalized SQLite persistence layer exposed via a dedicated MCP server for instant historical competitor profile retrieval without redundant API calls.

Experience

BackkBenchers **Jan 2026**

AI Creative Technologist: Freelancer *Remote*

- **Key Achievement:**Produced 60+ AI-generated video ads across short and long-form formats for 3 brands, leveraging Gemini for multimodal storyline generation and Veo 3.0 for prompt-to-video synthesis at production scale, sustaining a delivery rate of 2–3 production-ready assets daily.
- Owned creative pipeline from client brief interpretation to prompt engineering, asset generation, and iteration delivering short-form and long-form ad creatives that achieved 3K–17K organic views per post on Instagram.
- Drove multimodal content production at agency scale by architecting prompt workflows optimized for brand-aligned visual storytelling, maintaining near-zero revision cycles through precise prompt engineering and creative alignment with client vision.

Ekanga **Sep 2025 – Dec 2025**

AI Research Engineer *Gwalior*

- **Key Achievement:** Collaborated directly with the CEO to architect a multi-modal AI Avatar system, integrating lifelike image and video generation pipelines.
- Engineered 500+ hyper-realistic prompts across Stable Diffusion, Midjourney, and Gemini; iterative fine-tuning improved visual fidelity and thematic alignment by 40% over baseline.
- Built a systematic prompt refinement pipeline cutting inconsistencies by 30% and iteration time by 25%; led video generation experimentation on Heygen.ai and Veo3.

Web Development Intern **Mar 2024 – Sep 2024**

Persist Ventures *Remote*

- **Key Achievement:**Collaborated with 10+ clients and a cross-functional team of 4 developers to deliver 8+ custom websites, consistently meeting deadlines and improving client satisfaction.
- Performed QA testing and resolved 50+ bugs, reducing application issues by 30% and enhancing overall user experience.

Education

ITM University **Oct. 2020 – May 2024**

B.Tech – Computer Science – GPA : 8.1 *Gwalior, Madhya Pradesh*