

Daksh Tyagi

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Summary

Computer Science engineering student with backend engineering experience at Decentro and AI Intelligence Systems Lab. Built TriageAI, a full-stack ML system with a 94.6% accuracy classifier and 41 automated tests end-to-end. Skilled in REST API development, system integration, and financial ledger architecture; McKinsey Forward Program certified.

Certifications

McKinsey Forward Program <i>McKinsey</i>	Jun 23, 2026
Machine Learning for Data Science Projects <i>IBM</i>	Mar 26, 2026
Introduction to Computer Vision and Image Processing <i>IBM</i>	Oct 21, 2025
Make Foundation <i>Make Academy</i>	May 19, 2025

Technical Skills

CS Fundamentals: REST API, FastAPI, Flask Framework, Docker, Database, DBMS, CRUD, OS, CN
Languages: Python, SQL, JSON
AI: Pandas, Scikit-learn, AI Automation, Agentic AI Workflows, RAG Pipelines, LLM Orchestration, Prompt Engineering
Platforms / LLMs: OpenAI API (GPT), Anthropic (Claude), n8n, Hugging Face, ElevenLabs API, Vapi
Misc: Postman, GitHub, GitHub Copilot, Vercel, Supabase

Technical Achievements

Honeywell Hackspace Hackathon <i>4th place</i>	Oct 2025
TCS BCIC Hackostav <i>4th place</i>	Aug 2025
Flipkart Grid 7.0 <i>Finalist</i>	Aug 2025

Experience

Decentro <i>Backend Engineer</i>	Jun 2026 – Present <i>Bengaluru, India</i>
- Engineered backend systems for Decentro's Singapore-based cross-border payments and Banking-as-a-Service platform, building provider-agnostic payment workflows across multi-currency wallets, payouts, refunds, and merchant settlements, integrating Airwallex and DBS banking rails. - Designed and implemented financial ledger architecture – double-entry accounting, balance management, idempotency, and audit trails – supporting financial risk controls and provider reconciliation. - Developed REST APIs (Python, Flask, MySQL, MongoDB, SQLAlchemy) for auth, transactions, and merchant onboarding; documented processes, collaborated with cross-functional teams and clients, and deployed via Docker/AWS (ECR, EC2, CloudWatch).	
AI Intelligence Systems Lab <i>AI Engineer</i>	Oct 2025 – Mar 2026 <i>Bengaluru, India</i>
- Built Python and FastAPI backend services integrating RAG pipelines and external AI components into production workflows, enabling AI-driven features across application use cases. - Developed and shipped generative AI features using LLM and ElevenLabs APIs, translating product requirements into practical, user-facing solutions. - Designed and iterated on AI workflows through rapid development cycles, evaluating outputs and refining system behavior to improve reliability and usefulness.	

Projects

TriageAI <i>Python, FastAPI, scikit-learn, React/TypeScript</i>
- Designed and trained a dual TF-IDF + logistic regression classifier for ticket category and urgency, achieving 94.6%/73.2% accuracy against 22%/31% majority-class baselines, with calibrated confidence scores, per-token explainability, and selective prediction routing low-confidence cases to human review. - Built an async FastAPI backend (SQLAlchemy 2.0, SQLite/WAL) with a WebSocket event hub for live updates; diagnosed and fixed a template-leakage bug that had inflated initial model accuracy to a misleading 100%, rebuilding the synthetic data generator for an honest evaluation.

- Wrote 41 automated tests covering the ML pipeline, API contracts, and a WebSocket regression case; built a React/TypeScript Kanban dashboard and containerized both services with Docker, deploying via Railway/Vercel.

ReviewMind | *FastAPI, React/TypeScript, Anthropic/OpenAI APIs*

- Built a full-stack AI pull request reviewer (FastAPI + React/TypeScript) that analyzes GitHub diffs file-by-file with an LLM and streams validated findings to a dashboard over Server-Sent Events.
- Designed a three-layer validation pipeline treating model output as untrusted input – schema enforcement via Anthropic tool-use/OpenAI structured outputs, plus domain checks rejecting findings anchored to non-existent lines – with bounded repair retries.
- Built a reviewer feedback loop surfacing per-category false-positive rates and per-review token-cost tracking; validated with 167 automated tests running fully offline.

AI Voice Receptionist | *LLM, Vapi, ElevenLabs*

- Built an AI-powered voice receptionist using an LLM, speech-to-text, and text-to-speech (Vapi, ElevenLabs) to automate inbound call handling and natural-language conversations.
- Developed workflows for FAQ handling, appointment scheduling, lead capture, and call routing, supporting 8+ common caller intents.
- Tested the system across 50+ simulated calls, refining prompts and conversation flows to improve intent recognition and response quality.

Education

Manipal Institute of Technology

B.Tech in Computer Science Engineering (AI)

- SGPA: 8.4

Bengaluru, Karnataka

Aug 2023 – Present