

Sugumaran S.

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PROFILE

AI/ML & Full-Stack Engineer creating polished web products, practical machine-learning tools, and real-time experiences. Builds with Python, TypeScript, React, Next.js, FastAPI, NLP, and a strong focus on clarity, performance, and thoughtful user experience.

EDUCATION

Sri Venkateshwara College of Computer Applications & Management Master of Computer Applications (MCA) Anna University	2024 — 2026 Coimbatore, India
Government Arts & Science College, Bharathiar University Bachelor of Computer Applications (BCA) 83.71%	2021 — 2024 Gudalur, India

SELECTED PROJECTS

JobGuard — Fake Job Posting Detector	https://github.com/sugumaran-nix/fake-job-posting-ml
- Built an explainable screening flow combining DistilBERT classification, URL risk signals, and token-level explanations across 17,880 listings. - Reached 87.57% F1 with ONNX optimization, INT8 quantization, runtime model switching, Flask APIs, and Docker deployment.	
Sketchline — Real-Time Collaborative Whiteboard	https://github.com/sugumaran-nix/whiteboard-frontend
- Built a collaborative canvas with Next.js, TypeScript, FastAPI, WebSockets, and HTML Canvas for multi-user drawing. - Delivered sub-100ms synchronization, reconnect-safe replay, late-join recovery, shared undo/redo, and nine brush types.	
AI Shopping Agent — Product Search	https://github.com/sugumaran-nix/ai-shopping-agent
- Built a fault-tolerant product search pipeline with Next.js, FastAPI, Python, Gemini recommendations, and ScraperAPI. - Aggregated sources, deduplicated listings, ranked candidates, and added retries plus 30-minute caching for reliable search results.	

TECHNICAL FOCUS

Languages: Python, TypeScript, JavaScript, SQL Frontend: React.js, Next.js, Tailwind CSS Backend: FastAPI, Flask, REST APIs, WebSockets AI/ML & NLP: Scikit-learn, Hugging Face, DistilBERT, ONNX, Prompt Engineering, NLP Databases: MySQL, MongoDB Tools & OS: Git, Docker, Linux

CERTIFICATIONS

Google Cloud / Coursera — Introduction to Generative AI | Databricks — Foundation of LLMs | Prompt Engineering for Everyone — Verified Certificate | HackerRank — SQL (Basic)