DEEP JIYANI

AI / ML ENGINEER | GENERATIVE AI & FULL-STACK DEVELOPMENT

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PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience building Generative AI, conversational AI, and full-stack applications using Python, FastAPI, NVIDIA NIM, Ollama, and Frappe/ERPNext. Engineered AI-enabled business workflows connecting LLM intent recognition, conversational context, structured outputs, APIs, and ERP operations, including WhatsApp-based bookkeeping. Built practical systems across AI/ML, mobile/web development, browser automation, and computer vision.

TECHNICAL SKILLS

AI / ML: Generative AI, LLM integration, conversational AI, prompt engineering, STT, intent routing, structured output, Ollama, Llama 3, Mixtral, NVIDIA NIM, PyTorch, YOLOv8, OpenCV, NL-to-SQL

Programming / Backend: Python, TypeScript, JavaScript, SQL, FastAPI, NestJS, Node.js, REST APIs, WebSockets

Frontend / Mobile: React, Next.js, Electron, Flutter, Tailwind CSS, CustomTkinter

Data / Enterprise / Tools: PostgreSQL, MariaDB, MySQL, MS SQL Server, SQLite, Redis, Drizzle ORM, Frappe Framework / ERPNext, WhatsApp Business Cloud API, Evolution API, Puppeteer, Git, NumPy, pandas

PROFESSIONAL EXPERIENCE

ML & AI Engineer | Qwesys Digital Solutions | Jan 2026 – Present

- Engineered AI-enabled business workflows combining LLM inference, conversational state, API integrations, and ERP-related operations, including the NoteKar bookkeeping platform.
- Developed WhatsApp-connected business automation that transforms conversational inputs into structured data and downstream business actions, with multilingual workflow support.
- Worked across AI, ERP, messaging, and backend components spanning Python/FastAPI, NVIDIA NIM, Frappe/ERPNext, Redis, and WhatsApp APIs.

Software Engineer Trainee | DNJ TECHX | Jul 2025 (15 days)

Frontend Developer Intern | ByteWhales Infotech | Jun 2025 (15 days)

SELECTED PROJECTS

NoteKar — AI-Powered WhatsApp Bookkeeping & ERP Assistant | Python, FastAPI, Local LLM (QWEN), Frappe / ERPNext, Flutter, MariaDB, Redis, WhatsApp API

- Developed WhatsApp-based conversational workflows to turn text, voice, and image inputs into structured bookkeeping, customer, inventory, reminder, and business operations.
- Designed an AI-to-ERP integration flow using a local Qwen LLM for intent recognition, conversational context, and structured outputs for downstream business actions.
- Added OCR-based image content extraction and integrated multilingual input handling, customer/product resolution, and WhatsApp transport into the workflow, including the migration path to Meta WhatsApp Business Cloud API.

Textile Manufacturing Execution System (MES) | Next.js, TypeScript, NestJS, PostgreSQL, Drizzle ORM, Redis, Flutter

- Developed a multi-platform MES for textile wet processing covering inwarding, lab trials, recipes, production planning, machine execution, and outward dispatch.
- Built role-based workflows connecting web, backend, and mobile components through APIs, with live planning, production tracking, and traceability.

VirtuLinked AI — Local-LLM Outreach Platform | Electron, React, Node.js, TypeScript, Ollama, Mixtral, Puppeteer, SQLite

- Built an Electron desktop application for prospect management and personalized B2B outreach, integrating Mixtral through Ollama for context-aware message drafting.
- Developed browser automation and persistent lead workflows using Puppeteer, BetterSQLite3, and IPC-based background workers.

Smart AI Image Cropper | Python, YOLOv8, PyTorch, OpenCV, CustomTkinter

- Created a subject-aware batch image processing tool using YOLOv8 with OpenCV-based image-orientation correction.
- Built a multithreaded desktop interface for processing high-resolution image batches without blocking user interaction.

EDUCATION & CERTIFICATIONS

B.E. in Computer Engineering | S. S. Atmanand Saraswati Institute of Technology, surat (GTU) | 2022–2026 | CGPA: 8.68/10

Certification: The AI Engineer Course 2026: Complete AI Engineer Bootcamp — Udemy / 365 Careers (29.5 hours); Code Unnati Foundation Course in Python Programming, Data Analysis with Python, Artificial Intelligence and SAP Conversational AI Chatbot (SAP / Edunet Foundation).

LEADERSHIP & ACTIVITIES

- **Event Manager** | GAME-ON 2K26, SSASIT | Feb 2026
- **Volunteer, Food & Hospitality** | VIVIR 2K25 | Feb 2025
- **Team Manager** | team SSASIT — Spirit 2025-26, GTU Sports event | Aug 2025 – Dec 2025