

RUGVED SHELKE

AI ENGINEERING | SOFTWARE DEVELOPMENT | WORKFLOW AUTOMATION
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PROFESSIONAL SUMMARY

Computer Science undergraduate expected to graduate in 2027, building AI-powered applications, backend systems, and full-stack products. Hands-on experience developing LLM-based agents, automating workflows through APIs and messaging platforms, and delivering production software for real business needs. Interested in solving practical problems through reliable engineering, AI integration, and thoughtful product development.

TECHNICAL SKILLS

Programming: Python, Java, JavaScript/TypeScript, Go

AI & Generative AI: LLMs, prompt engineering, AI agents, LangChain, LangGraph, RAG, MCP, Gemini API, model-output verification

Backend & APIs: FastAPI, Flask, Node.js/Next.js, REST APIs, webhooks, OAuth 2.0, JWT authentication

Automation & Integrations: n8n, Twilio Voice/SMS/IVR, WhatsApp workflows, Telegram Bot API, Google Sheets API, GitHub Actions

Databases & Tools: PostgreSQL, MongoDB, Supabase, Redis, SQL, Prisma ORM, Git/GitHub, Docker, CI/CD, automated testing

Frontend: React, Next.js, Tailwind CSS

SELECTED PROJECTS

Startrek — Production ERP for KD Export | *Next.js, PostgreSQL, Prisma, JWT, automated testing*

- Built and shipped an end-to-end supply-chain platform for a real export business, supporting six role-based user types, audit logging, and a dispatch state machine that blocks duplicate and over-stock dispatches.
- Translated operational rules, including bundle calculations and room-capacity limits, into reusable logic and automated edge-case tests; also built and launched the company's public website.

Hermes → IssuePilot — LLM-Based Issue Recommendation Agent | *Python, LangChain, LangGraph, FastAPI, MongoDB, Redis/RQ, GitHub Actions, Telegram*

- Built an LLM-assisted agent that scores open-source issues and delivers daily recommendations through a scheduled Telegram workflow.
- Added live verification before delivery and reusable source adapters with a normalized schema, treating model scores and platform labels as signals to validate rather than unquestioned facts.

LifeFlow (Sanjeevani) — Donor Coordination Automation | *Python, FastAPI, Flask, Twilio Voice/SMS/IVR, n8n, Gemini, Google Sheets*

- Built an IVR workflow for blood, plasma, and platelet requests, with SMS slot confirmations and automatic queuing when storage is full.
- Integrated an n8n + Gemini WhatsApp agent with Google Sheets for donor and inventory updates, using a familiar interface for non-technical blood-bank staff.

RaceIQ — Real-Time Race Decision Engine | *Python, React, telemetry modelling, dynamic programming, MPC*

- Co-built a motorsport decision-support system for TrackShift with Haas F1 Team, inferring hidden opponent battery state from public telemetry using an eight-state Hidden Markov Model.
- Optimized attack/hold/defend decisions with a two-tier dynamic-programming and rolling-horizon model-predictive-control engine during a 36-hour build window.

AEO Competitor Gap-Analysis Agent | *AI agents, Perplexity API, Google Sheets, email automation*

- Built a workflow that detects when a domain is missing from an AI-generated answer, analyzes a leading competitor, and emails a gap summary; reported workflow time fell from hours to about 30 seconds.

Freelance Web Development — Three Client Projects | *Next.js, React, Tailwind CSS, WordPress*

- Designed, deployed, and maintained websites for KD Export, House of 666, and Rojekar Brothers, owning delivery from requirements through post-launch fixes.

EDUCATION

B.Tech, Computer Science & Engineering — D. Y. Patil School of Engineering & Management, Kolhapur

Expected graduation: June 2027 • CGPA: 7.5/10

LEADERSHIP & ENTREPRENEURSHIP

President, CSI Student Chapter, DYPSEM (Oct 2024–Oct 2025): Grew active participation to 200+ students and coordinated hackathons, technical seminars, sponsorship outreach, and event logistics.

Co-Founder, StickerDump.exe (2025): Bootstrapped a D2C sticker business to a reported 75% profit margin within seven months, managing product, marketing, operations, and fulfilment.

CERTIFICATIONS & ACHIEVEMENTS

Hugging Face Agents Course • Anthropic MCP: Advanced Topics • Build RAG Chatbot with Python • LetsUpgrade n8n Crash Course • McKinsey.org Forward Program • GenAI-Powered Data Analytics (Tata iQ/Forage) • Deloitte Technology Job Simulation (Forage) • React.js and Tailwind CSS Bootcamps

10+ national-level hackathons; 1st place in SIH Internal 2025; 1st prize in a pitch-deck competition; advanced to Round 2 at IIT Bombay (UnoVerse); selected as a LetsUpgrade Student Ambassador.