

Dr. Sandeep Shrivastva

AI Engineer · Automation Architect · HealthTech Systems Builder

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Idea → AI Product → Automated Revenue Pipeline

PROFESSIONAL SUMMARY

Most AI engineers write code. Few can also diagnose a patient, map a business process, and ship an automated product by end of week. That combination is what I bring. With a clinical background in Ayurvedic medicine and hands-on experience building AI systems, automation pipelines, and data extraction tools, I work at the point where healthcare logic, AI engineering, and startup execution meet. I don't prototype to prototype — I build systems that run.

CORE SKILLS

AI & Engineering

- ▶ AI-Assisted Coding
- ▶ Prompt Engineering
- ▶ Multimodal AI Systems
- ▶ LLM Integration
- ▶ RAG / Vector Search
- ▶ Local AI Deployment (Ollama)

Automation & Data

- ▶ Workflow Automation (n8n)
- ▶ API & Webhook Integration
- ▶ Data Extraction Pipelines
- ▶ Business Process Automation
- ▶ Marketing Automation
- ▶ Content Automation Systems

Domain & Strategy

- ▶ HealthTech Product Design
- ▶ Sensor-Based Diagnostics
- ▶ Clinical Data Interpretation
- ▶ Startup Planning
- ▶ Business Intelligence
- ▶ Research-to-Product Translation

TECHNICAL STACK

AI & LLM *API · Gemini · Ollama · LangChain · CrewAI*
Automation *n8n · REST APIs · Webhooks · Bot Pipelines*
AI Frameworks *RAG Systems · Vector Databases · Agentic Workflows*
Dev Approach *AI-Assisted Development · Rapid Prototyping · Full-Stack Product Thinking*

PROJECTS

AI-Based Diagnostic Pod *[Patent Applied]*

Designed and built a multimodal health intelligence system that pulls together sensor readings, clinical inputs, and visual data into a single structured AI output. No three separate dashboards — one system that thinks.

- ▶ Integrated live sensor data (ECG, SpO2, blood glucose etc) into a real-time AI processing pipeline
- ▶ Combined Ayurvedic clinical logic (prakriti, symptoms) with modern diagnostic inputs for dual-layer analysis
- ▶ Engineered visual input processing for tongue analysis and uploaded medical reports
- ▶ Built automated report generation producing personalised, print-ready & voice health intelligence summaries with guidelines
- ▶ Applied for a patent covering the sensor + AI + clinical logic integration architecture

AI Automation Ecosystem *[Live Deployment]*

Built a full-stack automation environment using n8n, Python, and AI APIs — replacing manual workflows with self-running pipelines across content, lead generation, and business operations.

- ▶ Engineered end-to-end content automation pipelines (ideation → draft → post) using LLM chaining
- ▶ Built lead generation bots connecting form inputs to CRM, email sequences, and notification systems
- ▶ Designed marketing funnel automation — webhook triggers, conditional logic, API-connected delivery
- ▶ Deployed local AI models via Ollama for offline-capable, cost-efficient business workflows

RAG Knowledge Intelligence System *[Built & Tested]*

Built a retrieval-augmented generation system for structured domain knowledge — allowing contextual, accurate querying of large medical and business knowledge bases without hallucination.

- ▶ Designed vector-based document ingestion and chunking pipeline for high-recall retrieval
- ▶ Integrated with LangChain for chain-of-thought reasoning over retrieved context
- ▶ Applied to healthcare knowledge bases — enabling AI-assisted clinical decision support
- ▶ Built structured prompt templates ensuring consistent, reliable output across query types

ACHIEVEMENTS

- ▶ KUHS Research Appreciation Award (2024) — 'Integrating Ayurvedic Principles into Modern Catering: Creating a Table for All'
- ▶ Applied Patent — AI-Based Diagnostic Pod: Sensor + Multimodal AI + Clinical Logic integration system
- ▶ Built deployable AI automation systems serving real clients and live workflows, not demos
- ▶ Produced published academic work, digital courses, and knowledge systems across medicine and AI

EDUCATION

BAMS — Bachelor of Ayurvedic Medicine & Surgery

Government Ayurveda College & Hospital, Thiruvananthapuram, Kerala

Full clinical training in diagnosis, therapeutics, and pharmacology

- Trained at a premier government Ayurvedic institution in India, known for extensive clinical exposure
- Experienced in managing large-scale patient data, diverse case profiles, and practical treatment protocols

DNHE — Diploma in Nutrition & Health Education

Applied nutrition science and public health education (Includes Research – Survey & Data Analysis)

WHAT MAKES THIS PROFILE DIFFERENT

- ▶ Medical domain expertise combined with hands-on AI engineering — this combination is genuinely rare
- ▶ Builds deployable systems, not proof-of-concept experiments: every project runs in the real world
- ▶ Can speak to founders, clinicians, and engineers in the same meeting — no translation needed
- ▶ Understands automation economics: which processes save real money when removed from human hands
- ▶ Works AI-assisted: delivers at speed most traditional developers can't match solo
- ▶ Patent-filed innovation in a space (clinical AI diagnostics) that most engineers don't understand clinically

WHAT I CAN DO FOR YOU

- ▶ Automate any repeatable business or clinical process into a self-running pipeline
- ▶ Design HealthTech AI products that actually make sense medically, not just technically
- ▶ Extract, structure, and operationalise data from any source — web, sensors, documents, APIs
- ▶ Turn a rough startup idea into a system map, prototype, and working MVP
- ▶ Build marketing and lead generation systems that run without a team behind them
- ▶ Integrate AI agents and LLMs into existing workflows without breaking what already works

Available for AI Engineering · HealthTech Consulting · Automation Projects · Global Remote Work