

# Nanduvamsikrishna Yanamandala

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## EDUCATION

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### Gurukul Kangri Vishwavidyalaya

Bachelor of Technology in Computer Science - 8.5 CGPA

Haridwar, Uttarakhand

2021 – 2025

### SriGayatri Junior College

Intermediate Board - 97.4%

Hyderabad, Telangana

2019 – 2021

## WORK EXPERIENCE

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### Data Scientist

Solis Technology Pvt Ltd

June 2025 – Present

Gurugram, Delhi

**Solis Insurify - Enterprise Insurance Distribution Platform** | *NestJS 11, Next.js 16, React 19, TypeScript, Prisma 6, PostgreSQL, Redis, gRPC, Temporal, AWS, Claude Code*

- End-to-end SaaS platform digitizing the insurance distribution lifecycle - lead capture, customer KYC, quote generation (Motor/Health/Life/Commercial), policy issuance, commission settlements, and analytics across role-specific apps for Agents, RMs, Ops, HR, and Admin.
- Architected **Nx monorepo** with **13 NestJS microservices** and **5 Next.js apps**; event-driven design with gRPC inter-service calls, Temporal workflows, Redis pub/sub, and SSE/Socket.IO for real-time updates.
- End-to-end **AI-assisted development using Claude Code** across 100k+ LOC - architecture, implementation, debugging, and refactoring; integrated multi-tenant auth, KYC, quoting engine, settlements, and email/SMS/WhatsApp notifications.

**Fig-Code (No-Code Figma to Code Platform)** | *MCP, Ollama, Mistral 7B, Gemini 2.5 Pro, React, Next.js, LangChain, RAG, FAISS*

- Designed an **AI-powered no-code platform** to automatically convert Figma screens into production-ready full-stack code using an agent-based architecture with MCP and LangChain for UI component and layout analysis.
- Integrated multiple LLMs (Mistral 7B, Gemini 2.5 Pro via Ollama) with **RAG pipelines** to improve component reuse and design-to-code fidelity, generating optimized React/Next.js components with responsive styling.

**Document Masking System (Aadhaar/PAN Security Automation)** | *OCR, OpenCV, PyPDF2, AWS S3, Regex, Image Processing*

- Built an **automated document masking** solution using Tesseract OCR + regex pattern detection to identify and mask sensitive Aadhaar/PAN fields from scanned images and PDFs; applied OpenCV for precise region masking while preserving readability, with AWS S3 for secure storage.
- Extended pipeline into a **SmartDoc AI Parser** using FastAPI, AWS Textract, and Google Gemini API to extract structured PAN/Aadhaar fields (Name, DOB, PAN) and export to CSV via Pandas.

**Multilingual Voice-enabled Chatbot** | *NeMo Toolkit [ASR], TensorFlow, PyTorch, Transformers, Node.js, Prisma ORM, PostgreSQL*

- Built a multilingual voice-enabled chatbot supporting Kannada, Punjabi, Hindi, English, Telugu, and Tamil with real-time speech recognition; implemented **ASR pipeline using NeMo Conformer** with NLU models and TensorFlow/Keras for intent classification.

**AI-Powered Customer Self-Declaration System** | *React Native, TypeScript, Node.js, FastAPI, WebSockets, JWT, AWS Transcribe*

- Built a cross-platform mobile app with React Native automating customer declarations via live video sessions, **real-time AWS Transcribe transcription**, and ML-based data validation against customer records using Python FastAPI microservices.

- **Feature Analysis:** Engineered and analyzed key features impacting restaurant ratings across 10,000+ entries; performed statistical profiling of categorical variables to identify distribution patterns and data quality issues for downstream modeling.
- **Geospatial ML:** Applied GIS-based feature extraction, hot spot analysis, and spatial autocorrelation to quantify location-rating correlations across cities and countries, generating location-aware features for predictive modeling.
- **Predictive Modeling:** Designed, trained, and validated a regression model to predict aggregate restaurant ratings from engineered features, achieving 80% accuracy via iterative hyperparameter tuning and k-fold cross-validation.

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## SKILLS

**Languages & Tools:** Python, Java, C, HTML, CSS, Flask, MySQL, Git.

**ML & DL:** TensorFlow, Keras, PyTorch, Scikit-learn, CNNs, RNNs, GANs, Transformers, DSPy.

**Data & Web:** Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup, Requests, Qdrant, Prisma, PostgreSQL.

**CV & Deployment:** OpenCV, Dlib, Multithreading, AWS (S3/SES/SQS/Textextract)

**AI Tools & LLM Dev:** Claude Code, Gemini CLI, OpenCode, Cline, MCP, LangChain, LangGraph, Ollama, Prompt Engineering.

**Cloud & Backend Infra:** AWS (S3/SES/SQS/Textextract/Transcribe/DynamoDB), Redis, gRPC, Temporal, FastAPI, NestJS.

**Soft Skills:** Teamwork, Communication, Project Management, Problem-Solving.

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## ACADEMIC PROJECTS

**Hybrid Telegram GenAI Bot (RAG + Vision)** | *Python, Ollama, Mistral 7B, LLaVA, sentence-transformers, SQLite, python-telegram-bot* 2024

- Built a fully local GenAI Telegram bot combining a **RAG pipeline** (Mistral 7B + sentence-transformers + SQLite vector store) with multimodal vision (LLaVA 7B) for image captioning and keyword tagging - all running locally via Ollama with no cloud API dependency.
- Implemented query caching, top-k semantic retrieval with source attribution, and per-user message history for context-aware answers; structured as a clean modular pipeline (ingest → embed → retrieve → generate) (GitHub Link)

**HireHive** | *Python, Selenium, BeautifulSoup, Flask, Machine Learning, Gemini API, Tensorflow* 2024

- Dynamic job-scraping pipeline using Selenium and LinkedIn APIs; integrated **Google Gemini API** for automated skill extraction. Fine-tuned ML models with TF-IDF and N-grams for resume analysis; deployed as a Flask web app.(GitHub Link)

**Math Agentic RAG** | *Python, LangChain, Transformers, LLM's, Lang-graphs, Qdrant, Exa, DSPy* 2025

- Built a Human-in-the-Loop **agentic RAG system** using LangChain, HuggingFace, and Qdrant to solve math problems from datasets like GSM8K and MathQA. Integrated Flan-T5 with DSPy for prompt chaining and semantic retrieval.
- Enabled web search fallback via Exa API for out-of-domain queries and added CLI-based feedback loops for iterative learning. Achieved scalable, intelligent reasoning with structured retrieval and LLM-based generation. (GitHub Link)

**DrowzeAI** | *Python, OpenCV, Dlib, DeepFace, Librosa, keras, TensorFlow, Pyttsx3,* 2025

- Real-time driver monitoring system combining computer vision (Dlib EAR/MAR, DeepFace) and audio analysis (SER + MFCC) for drowsiness and emotion detection; deployed multithreaded voice/GUI alerts via pyttsx3 and Tkinter.(GitHub Link)

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## CERTIFICATIONS

**Cognizant Artificial Intelligence Job simulation**

2024

<https://forage-uploads-prod.s3.amazonaws.com/completion-certificates/Cognizant>