SATHWIK NAAG SANKURU

PRODUCT EXECUTIVE | AI / LLM | PRODUCT & UX | SOFTWARE

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PROFILE

Final-year B.Tech Computer Science Engineering (Data Science) student with hands-on experience across software development, product-oriented UX, requirements analysis, cross-functional collaboration, and LLM-powered applications. Experienced in translating requirements into user-centered digital experiences and developing AI applications using RAG, agentic workflows, LangChain, OpenAI, Gemini, Ollama, and structured outputs. Strong foundation in Agile development, software documentation, UI prototyping, analytics, and end-to-end application development.

EDUCATION

GITAM University Hyderabad (2023 - 2027) | B.Tech - CSE Data Science **CGPA : 7.72**

CORE SKILLS

Product & Requirements: Requirements Analysis | User-Centered Design | User Flows | Personas | Information Architecture | Workflow Design | Stakeholder Collaboration | Technical Documentation

Product Development: Software Requirements | Software Design & Development | Agile Methodologies | SDLC | Cross-Functional Collaboration | Iterative Development | Analytics | Analytics Dashboards | REST APIs | Git | GitLab

AI & LLM: LLMs | Generative AI | Agentic AI | RAG | LangChain | Prompt Engineering | Tool Calling | Structured Outputs | Pydantic | OpenAI | Google Gemini | Ollama | Hugging Face | ChromaDB

UI/UX & Engineering: Figma | Wireframing | UI Prototyping | Usability Testing | Python | Java | JavaScript | SQL | FastAPI | Streamlit | PostgreSQL | MySQL

EXPERIENCE

AI & Full Stack Developer Intern | Swecha.ai (May 2026 – Jun 2026)

- Collaborated with developers, designers, and stakeholders to translate requirements into production-ready digital experiences through iterative development.
- Led the UI/UX redesign of the official Activity Tracker, improving navigation, information architecture, usability, and workflow efficiency through user-centered design.
- Redesigned the official Swecha website with responsive layouts, accessibility-focused interfaces, reusable design patterns, and improved visual hierarchy.
- Built a document-grounded RAG chatbot using Python and LLM-based information retrieval across document processing, retrieval, context injection, and response generation.
- Selected Contributions & Project Repositories: GitLab Link

AI/ML Intern – Iris Flower Classification Project | BITS Pilani – Hyderabad Campus (7-Week AI/ML Internship)

- Developed a Logistic Regression classification pipeline using Python and Scikit-learn, covering data preprocessing, feature analysis, model training, and evaluation.
- Built a reusable inference workflow using Joblib and evaluated model performance using standard classification metrics.
- Tech Stack: Python, Scikit-learn, Pandas, NumPy, Joblib | Google Colab Link

PROJECTS

DigAlert – Smart Permit Intelligence Platform (Product, UI/UX & Full Stack Development)

- Designed and developed a civic technology platform serving citizens, utility agencies, and administrators, translating multi-stakeholder needs into unified digital workflows.
- Designed permit-management workflows, analytics dashboards, complaint tracking, notification interfaces, and interactive map experiences across multiple user roles.
- Improved information accessibility through role-based dashboards, intuitive navigation, responsive interfaces, and streamlined workflows.

Tech Stack: React.js, FastAPI, PostgreSQL, Tailwind CSS, Recharts, Leaflet | Vercel Link

Legal Intelligence RAG Agent - Agentic AI Product

- Developed a single-agent legal intelligence system coordinating intent classification, evidence retrieval, LLM reasoning, structured output generation, and validation.
- Implemented LLM-driven tool calling with LangChain for evidence retrieval, timeline extraction, witness contradiction analysis, and case-fact summarization.
- Built a RAG pipeline using ChromaDB and Hugging Face/Sentence-Transformer embeddings for domain-specific evidence retrieval and relevance scoring.
- Integrated OpenAI, Gemini, and Ollama through a unified LLM service with fallback handling and local/offline inference, using Pydantic for structured response validation.

Tech Stack: Python, LangChain, RAG, ChromaDB, Hugging Face, Sentence Transformers, OpenAI, Gemini, Ollama, Pydantic, Streamlit

Optimized Hybrid Deep Transformer Model for Enhanced Cyberattack Detection - Final Year Project (In Progress)

- Developing a hybrid CNN-Transformer system for IoT network intrusion detection using CICIoT2023, covering preprocessing, feature engineering, feature optimization, and Explainable AI.
- Combining CNN-based feature extraction with Transformer self-attention to capture feature dependencies in network traffic.
- Evaluating the system using Accuracy, Precision, Recall, F1-Score, and False Positive Rate, with emphasis on reliable detection and minimizing false alarms.

Tech Stack: Python, Deep Learning, CNN, Transformers, CICIoT2023, Feature Engineering, Explainable AI

LEADERSHIP & ACTIVITIES

- **Graphic Designer** with 300+ Creative Works
- **Campus Student Leader – Operations, Design & Media (ODM)** for the academic year 2026 - 2027.
- **Head of Graphic Design** – Google Developer Group on Campus, COGAAN & ENIGMA clubs.
- Participated in **Hack2Skill** coding competitions.
- **AIU**(All India-Inter University Tournament) Esports Team Captain.
- **Google Cloud Study Jams** – Completed Cloud & AI Learning Program