ALEKHA KUMAR SWAIN

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OBJECTIVE :

AI & Full-Stack Engineer with hands-on experience building secure, scalable, production-ready systems across **cybersecurity and healthcare**. Specialized in **Generative AI, LLM integration**, agent-based automation, and cloud-native architectures, with a strong focus on building adaptive, safe systems aligned with the future of **AGI**.

SKILLS :

Programming: Python, JavaScript, TypeScript, SQL, Dart
Full-Stack & APIs: React, Next.js, Node.js, Express, FastAPI, Flask, REST, WebSockets, Firebase
AI & LLM: GenAI, LLM, NLP, Prompt Engineering, RAG, Embeddings, Vector Search, LangChain, LangGraph
Multimodal AI: STT, TTS, Voice Agents, Vision-based AI, Visualization
Data & Streaming: Kafka, ETL Pipelines, Webhooks, Real-time Event Processing, Web Scraping
ML & AI Tools: TensorFlow, PyTorch, Hugging Face, OpenAI/Gemini APIs, NumPy, Pandas
Cloud & DevOps: Docker, Kubernetes, CI/CD (GitHub), AWS, GCP, Azure DevOps
Automation & Tools: n8n, Playwright, BeautifulSoup, GitHub, Postman, VS Code

EXPERIENCE :

Qualysec Technology Pvt. Ltd. – AI Researcher   **May 2025 – Jan 2026**
- Led the design and delivery of **AI-powered cybersecurity solutions**, reducing manual vulnerability assessment time. Explored cybersecurity automation using **Generative AI (GenAI) and LLMs**
- Built an **LLM-driven risk scoring engine** to predict high-severity threats with strong accuracy.
- Implemented **automated security reporting pipelines**, streamlining report generation.
- Developed **multiple internal AI tools** to optimize team workflows and enhance automation.

PROJECTS :

- **SuuSri AI Assistant**   **Jan 2026**
  - Built a real-time **multimodal AI assistant** that learns like a human, remembers past interactions, communicates fluently in any language, and **autonomously executes system tasks** with intelligent interruption and secure human-in-the-loop control.
- **AI-Based GitHub Repository Analyzer & Comparator |**   **Dec 2025**
  - Developed an AI system leveraging **LLMs and RAG** to analyze, compare, and **chat with GitHub repositories**, providing deep insights into architecture, code quality, scalability, and production readiness via a frontend-agnostic interface.
- **IntelNexus – AI-Powered Competitive Intelligence Researcher**   **Nov 2025**
  - Developed an **AI-driven OSINT** platform using **Google-based analysis** to collect, correlate, and **analyze comprehensive public web data**, generating real-time competitive, market, and technology intelligence through automated AI pipelines.
- **Docker-Based AI Automation Platform**   **Sep 2025**
  - Built a containerized AI-powered **virtual automation browser** that runs securely **in isolated environments** and can be **accessed remotely** from anywhere. **Enabled AI-driven browser** actions—scraping, form filling, and data extraction—through orchestrated workflows **without exposing host system** credentials.
- **Swasthya Setu – Healthcare Innovation**   **Jan 2025**
  - Built an **AI-driven healthcare** and **EHR** platform that connects hospitals, clinics, and blood banks, **enabling real-time emergency alerts** and coordinated response. Implemented an **HRM-based system** with **RAG to securely collect**, retain, and leverage **historical patient health data** for faster, context-aware medical decision support.

ACHIEVEMENTS :

- 🏆 **Rising Star of the Year – Qualysec Technology Pvt. Ltd. 2025**
- 🏆 **Innovator of the Month - May 2025 & Nov 2025**
- 🏆 **Finalist – Trithon Hackathon – Mar 2025**
- 🏆 **Top 5 Finalist – Technovate for India Conclave Ideathon competition By Times Of India - Feb 2025**
- 🏆 **Second Runner-Up – Srusti Tech Hack 1.0 - Jan 2025**

EDUCATION

Bachelor of Technology in Computer Science   **2021-2025**
College Of Engineering Bhubaneswar   Bhubaneswar, Odisha

CERTIFICATION

- **Artificial Intelligence Certification –** Reliance Foundation Skilling Academy
- **Microsoft Azure Fundamentals** – Microsoft
- **Fundamental AI Concepts** – Microsoft Learn
- **Google Cloud Computing Foundations** – Google Cloud
- **Introduction to Large Language Models (LLMs)** – Google Cloud