# AMAN SINGH

+91 9845633417 | amansingh160704@gmail.com|https://linkedin.com/in/aman-singh-a1404b256 | https://github.com/AMANSINGH1674

## EXECUTIVE SUMMARY

Final-year Computer Science candidate specializing in Artificial Intelligence and Machine Learning with hands-on experience delivering production-grade AI solutions. Proven expertise in AI agent orchestration, Retrieval-Augmented Generation (RAG) workflows, and blockchain integration for real-world applications in healthcare, cybersecurity, and autonomous systems. Skilled in designing and deploying end-to-end ML pipelines, cloud-native architectures, and modern front-end frameworks to build scalable, high-impact solutions. Recognized through top-tier hackathon achievements at Delhi, IIT Bhubaneswar, and national competitions.

## TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, TypeScript, SQL, Golang, Apache Cassandra
- AI / ML & Data Science: TensorFlow, PyTorch, HuggingFace Transformers, OpenCV, RAG, AI Agents, Agentic Workflows, LLM fine-tuning.
- Frameworks & Libraries: Flask, FastAPI, ReactJs, NextJs,N8N Automation
- Cloud & DevOps: AWS, Kubernetes, Docker, Git, MLflow, Prometheus, Apache Hadoop, Supabase
- Databases & APIs: PostgreSQL, Redis, Tatum API

## WORK EXPERIENCE

**Infosys Springboard**                                                     **Sept 2025 - Dec 2025**
AI Intern
- Developing SwiftVisa, an AI-powered visa eligibility screening agent at Infosys, leveraging NLP and rule-based reasoning to automate and streamline visa application assessments.

**DeanInfoTech**                                                             **Aug 2025 - Oct 2025**
AI Intern
- Building AI Automations and RAG systems for various use cases.
- Working with cross-functional functional teams to assist in various projects.

**Inbout[Startup]**                                                          **Feb 2025 - Apr 2025**
AI Intern
- Developed and optimized an Automated AI Agent that handled over 200 customer calls monthly, reducing manual call management time by 45% and improving response accuracy by 30%.
- Contributed to the front-end development of the MVP platform, enhancing user interface responsiveness that led to a 25% increase in user engagement metrics within the first quarter post-test launch.

## EDUCATION

**Presidency University**
Bachelor's degree: B.Tech in Computer Science and Technology, specialization in Artificial Intelligence & Machine Learning

## PROJECTS

**ARTIST[Agentic Tool-Integrated Large Language]**                           **Jan2025 - Jul2025**
- Built an enterprise-grade AI orchestration platform automating multi-step workflows, reducing research task time by 60% and amplifying decision making.
- Implemented LangChain & LangGraph for AI agent orchestration, FastAPI backend, PostgreSQL + Redis for scalable data handling.

**Semantic MLES Platform**                                                   **Mar 2025 - May 2025**
- Developed a production-grade Machine Learning Engineering System (MLES) leveraging Python, FastAPI, and the Sematic DAG framework, optimizing and fine-tuning end-to-end ML pipelines with scikit-learn, XGBoost, and SHAP for enhanced model interpretability.
- Enhanced model reliability and system resilience, achieving 73% overall uptime and 82% model-specific reliability through automated retraining, drift detection, and failover mechanisms, ensuring consistent performance in real-world conditions.

**AI-driven multi-agent system for autonomous cybersecurity and cloud resource management**    **Oct 2024 - Dec 2024**
- Developed an AI-powered multi-agent system to enhance cybersecurity and optimize cloud resource management autonomously by 30%.
- Created scalable architectures with ReactJS, Supabase, and N8N for automation with sub-300 ms decision latency.

## ACHIEVEMENTS

- Volunteer at Google Cloud Agentic AI Day [Guinness World Record for most participants in an Agentic AI Hackathon]
- Overall 9th place finish - COSC Hackweek organized by CBIT Open Source Community and GeeksForGeeks
- Top-20 Finalists - IIT Delhi SynthQuest Hackathon[March 2025]
- Top-20 - National Level Hackathon SuPrathon 2k25 by SuPrazo Technologies and CodeElevate Academy
- Top 100 finalist[5000+ Participants] - IIT Bhubaneswar FrontEnd Battle 2.0

## CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified Data Science Professional
- AWS Generative AI for Developers Specialization
- IBM Machine Learning with Python
- IBM RAG and Agentic AI Professional Certification