Aaryan Sharma

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EDUCATION

Northwestern University, Kellogg School of Management June 2027
Master in Management

- **The Garage (Startup Incubator):** Pursuing commercialization of SkyRipple through the Tinker program

University of Illinois Urbana–Champaign, Grainger College of Engineering May 2026
Bachelor of Science in Mathematics & Computer Science GPA: 3.60/4.00

- **City Scholars:** Selected as 1 of 25 for the college's premier academic-corporate fellowship in Chicago
- **Research:** Presented election forecasting research to 100+ experts at the DIMACS 2024 conference
- **Technical Lead:** Led a 10-member team delivering 8 AI solutions; received the ATLAS Spotlight Award (1 of 96)

PROJECTS

The Open Universal Data Marketplace | Independent Product Builder Sep 2026 – Present

- Selected Tabular Denoising Diffusion Probabilistic Models (TabDDPM) over GANs to generate mixed continuous and discrete data for 1,000-row previews without exposing raw provider datasets
- Designed a multi-service data platform integrating PyTorch, FastAPI, Flask, and PostgreSQL 16, with synthetic-data generation supporting privacy-aware discovery and evaluation before purchase

SkyRipple (skyripple.saaryan.com) | Independent Product Builder Aug 2026 – Sep 2026

- Developed a Python simulation pipeline using 582,410 historical BTS flight records to model cascading delays, aircraft rotations, and network-wide disruption costs across the US flight network
- Designed a 5-agent recovery framework to optimize aircraft, crew, gate, and passenger trade-offs under operational constraints, evaluating recovery scenarios that yielded $145K in modeled disruption-cost savings

EXPERIENCE

HERE Technologies Chicago, IL
Data Science Intern Jan 2026 – May 2026

- Developed a Two-Tower neural network comprising three multilayer perceptrons (MLPs) to learn road-sign and supporting-structure representations, improving spatial association accuracy from 82% with XGBoost to 98%
- Engineered 28 geometric, spatial, and relational features and addressed a ~1:10 positive-to-negative class imbalance, supporting automated map updates with 1,500+ weekly fieldwork hours avoided across Europe

Onix Networking Pune, India
Artificial Intelligence Intern Jun 2025 – Aug 2025

- Developed an agentic simulation system within Kingfisher to generate synthetic healthcare data on demand
- Built healthcare and insurance workflows generating FHIR-compliant data across 20+ entities
- Evolved the system from rule-based logic to LLM-driven agent orchestration using LangGraph
- Derived domain-specific relationships from a 10,000-record HMS dataset to build a knowledge base for simulation

NEC Corporation Noida, India
Artificial Intelligence Intern Dec 2024 – Jan 2025

- Benchmarked 5 object-tracking algorithms to evaluate vehicle tracking under motion occlusion in NEC Mi-Eye
- Evaluated FairMOT and developed C++ solutions for vehicle tracking across 1,500+ Delhi traffic cameras
- Compared algorithm performance using real-world traffic footage, projecting a 40% reduction in compute costs

Software Engineer Intern Jun 2024 – Sep 2024

- Developed a fleet-management demonstrator integrating government logistics APIs through India's ULIP
- Implemented truck-location updates using FASTag toll records and integrated driver-license verification
- Led a 4-member team and demonstrated the system in 10+ sessions for internal and government stakeholders

SKILLS

Languages & Data: Python, SQL, C++, R, Pandas, NumPy, SciPy
Machine Learning: PyTorch, TensorFlow, scikit-learn, XGBoost, Random Forest, Neural Networks
AI & Data Systems: LangChain, LangGraph, FastAPI, PostgreSQL, ChromaDB
Certifications: Intermediate Machine Learning (Kaggle), Intro to Machine Learning (Kaggle)