

# Aaryan Sharma

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## EDUCATION

### University of Illinois Urbana-Champaign

Bachelor of Science in Mathematics & Computer Science

Expected: May 2026

GPA: 3.72/4.0

- Dean's List: Fall 2022 – Fall 2024

- Courses: Algorithms, Data Structures, Formal Models of Computation, Programming Languages & Compilers

## TECHNICAL SKILLS

### Programming Languages:

Python, C/C++, Java, R, OCaml, F#, JavaScript, Assembly, Shell

### Data Analytics:

Pandas, NumPy, Matplotlib, SciPy, Seaborn, Tableau, Power BI

### Machine Learning:

XGBoost, Random Forest, Decision Tree, FairMOT, TFT, DART

### Deep Learning & Models:

PyTorch, TensorFlow, DeepSeek, Qwen, Llama, Gemini, GPT-4

### APIs & Automation:

RESTful API, FastAPI, BeautifulSoup4, Selenium, Airflow

### Storage, Version Control & Tools:

LangChain, Neo4j, SQL, ChromaDB, Git, Docker, CI/CD

## INDUSTRY EXPERIENCE

### Onix Networking

Jun 2025 – Aug 2025

Artificial Intelligence Intern

Pune, MH, India

- Developed an **agentic simulation system** within the Kingfisher product to generate **synthetic healthcare data**
- Tailored the system for **healthcare and insurance** clients to generate **FHIR-compliant** data across 20+ entities
- Designed and executed a phased roadmap, evolving from rule-based logic to an agentic system by using **AI agents**
- Semantically enriched a **10,000-record Harvard dataset** to create domain-specific base datasets for simulation
- Supported Onix's pivot toward agentic systems via **LLM-driven automation** aligned with the industry trend

### NEC Corporation

Dec 2024 – Jan 2025

Artificial Intelligence Intern

Noida, UP, India

- Researched and benchmarked **5 object-tracking algorithms** to enhance NEC MiEye's vehicle-tracking accuracy
- Developed and optimized **C++ solutions** to improve accuracy across **1,500+ traffic cameras** in Delhi NCR
- Prepared comparative analysis reports and delivered **system demonstrations** using real-world video datasets

## CAMPUS & RESEARCH EXPERIENCE

### University of Illinois Urbana-Champaign

Jan 2025 – Present

Artificial Intelligence Lead Engineer

Champaign, IL, USA

- Created a development roadmap for a team of **10** to deliver **8 production-ready projects** across university units
- Coordinated weekly **scrum meetings**, achieving **100% on-time delivery** across all projects
- Served as primary point of contact for interns, providing **mentorship**, issue resolution, and task guidance
- Recognized as **1 of 96 interns** in the **ATLAS Spotlight** for exceptional performance and exceeding expectations

### University of Illinois Chicago

Jun 2023 – May 2024

Research Assistant

Chicago, IL, USA

- Conducted a year-long study under **Prof. Ian Kash** evaluating **U.S. election models** using 4 statistical methods
- Used **Brier scoring** to assess and automate forecast accuracy across multiple state combinations
- Invited to present findings at **DIMACS 2024** recognizing the impact of the research on election prediction
- Submitted a research proposal to the **College of Engineering** outlining key methods, results, and insights

## PROJECTS

**MediQuery:** AI chatbot for symptom checking and suggesting possible conditions and specialists

**HealthApp:** Hackathon-winning dashboard for managing prescriptions, medication stock, and resources

## CERTIFICATIONS

**Development:** DevOps, Docker, Ubuntu Linux, Database Systems, Agile Project Management

**Machine Learning:** Intermediate Machine Learning, Introduction to Machine Learning