# Ayush Ghosh

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## EDUCATION & CERTIFICATIONS

**University of Illinois Urbana-Champaign** — Champaign, IL
*Master of Computer Science (Data Science, Part-time)* | GPA: 3.9/4.0 — Jan 2024 – Dec 2025
Relevant Coursework: Cloud Computing, Database Systems, Machine Learning, Deep Learning, Natural Language Processing

**St. Cloud State University** — St. Cloud, MN
*Master of Engineering Management* | GPA: 3.9/4.0 — Aug 2022 – Aug 2024
Relevant Coursework: Big Data, Quality Engineering, Project Management, Agile Methodologies, Supply Chain

**Thapar Institute of Engineering and Technology** — Patiala, India
*Bachelor of Engineering – Electronics & Communications* | GPA: 8.6/10.0 — Jul 2017 – Jul 2021
Relevant Coursework: System Design, Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Machine Learning, Digital Signal Processing

**Certifications:** Certified Associate of Engineering Manager (ASEM), Six Sigma Green Belt, Duke – AI Product Management, Google – Product Management

## PROFESSIONAL EXPERIENCE

**Sculptor Capital Management** — New York, NY
*AI Product Manager* — Jun 2025 – Present

- Delivered a generative AI Q&A platform using **LangChain + Azure GPT**, reducing manual reporting time by **25%** and accelerating executive decision-making.
- Translated business requirements into a prioritized engineering backlog, aligning cross-functional teams on features, dependencies, and delivery timelines.
- Directed launch of cloud-native pipelines via **Azure Data Factory + Databricks**, cutting data latency **30%** and enabling portfolio managers to make faster, more accurate investment calls.

**Humannity Medtec (Alfred Mann Foundation)** — Los Angeles, CA
*Software Engineer II (Promoted from SWE I)* — Sep 2023 – May 2025

- Led end-to-end delivery of a regulated telemetry data platform, coordinating a global team across the SDLC to deploy dashboards processing **5M+ patient records daily** in compliance with FDA standards.
- Drove development of an ML anomaly detection feature, defining milestones and overseeing implementation to achieve **1-minute alert latency**, improving clinical response times for physicians.
- Facilitated Agile ceremonies (sprint planning, retrospectives, stand-ups) for a distributed team of **10+ engineers**, ensuring 95% on-time sprint delivery and alignment with the product roadmap.
- (SWE I) Designed patient-facing flows in **Figma** and co-developed an ML model for patient risk classification, enabling proactive interventions and improving detection accuracy in pilot testing.

**Freelance Consultant** — Remote, USA
*Health Analytics Product Manager* — Sep 2022 – Jul 2023

- Advised health-tech org on technical requirements and data strategy, guiding market intelligence tools that shaped executive roadmaps and investment choices.
- Standardized executive dashboards in **Tableau + AWS**, improving data consistency and saving leadership teams **6+ hours weekly**.

**ZS Associates** — Pune, India
*Decision Analytics Associate – Data Science* — Jan 2021 – Jul 2022

- Co-developed an ML-driven customer targeting engine, enabling a **2x market share increase in 18 months** by surfacing high-value physician segments.
- Managed marketing analytics projects, optimizing campaign prioritization and driving an average **30% lift in ROI**.
- Defined and implemented integration roadmap to embed **real-time ML recommendations**, boosting adoption and speeding up decision-making for 100+ field reps.

## SKILLS

- **Program & Project Management:** Agile, Scrum, Kanban, Project Lifecycle Management, Technical Roadmaps, Stakeholder Communication, Risk Mitigation
- **Cloud & Data Engineering:** AWS, Azure, GCP, Databricks, ETL, SQL, Docker, CI/CD, Git, Github
- **AI/ML & Analytics:** Python, scikit-learn, XGBoost, PyTorch, TensorFlow, MLflow, RAG, LangChain, Tableau, Power BI, Excel
- **Collaboration Tools:** JIRA, Confluence, Trello, Microsoft Teams, Slack