

Saisha Ketkar

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EDUCATION

Northeastern University Hourly College of Computer Sciences

Boston, MA | May 2026

Candidate for Bachelor of Science in Data Science and Economics

GPA: 3.73/4.00

Awards and Activities: Dean's List, TAMID at Northeastern, Women in Economics, Women in Business, Northeastern Origami

Relevant Coursework: Object Oriented Design, Database Design, CS Fundamentals, Machine Learning/Data Mining, Cybersecurity

PROFESSIONAL EXPERIENCE

Ropes & Gray LLP

Boston, MA

Information Technology Training Specialist Co-op

Jul – Dec 2025

- Engineered reporting systems across 16 global offices using SQL and Excel Power Query, writing automated data pipelines and queries to support real-time performance tracking, operational efficiency, and compliance visibility for 3,000+ employees
- Automated reporting workflows by developing scripts and process logic using Excel and internal tools, reducing turnaround time by 60% and enabling leadership across all departments to make faster, more informed data-driven decisions at scale
- Built Tableau and Power BI-style dashboards, improving data accuracy by 30% and translating datasets into actionable insights
- Designed documentation and end-to-end workflows for application rollouts, investigating and resolving issues as they arose to reduce post-deployment errors by 35%, collaborating cross-functionally with IT and operations teams to drive execution
- Leveraged Generative AI tools (Harvey and R2G2) to streamline documentation workflows and accelerate information retrieval, reducing manual effort across legal operations and demonstrating hands-on experience with LLM-powered tools

Northeastern University Information Technology Services

Boston, MA

Digital Knowledge Analyst Co-op

Sept – Dec 2024

- Developed workflow automation tools and product analytics features in ServiceNow, independently scoping and implementing engineering solutions to track feature adoption, streamline workflows, and optimize team productivity across the organization
- Analyzed knowledge base performance data to surface actionable insights on patterns/trends, informing data-driven decisions
- Audited and standardized 200+ technical articles monthly, enforcing data integrity, conducting controls testing, and ensuring full compliance with internal governance standards, improving reporting consistency by 50% across the knowledge base
- Earned 3rd place in a company-wide Salesforce Hackathon; designed and built full-stack applications with custom workflows to solve real business problems, collaborating with cross-functional teams under time constraints

LEADERSHIP EXPERIENCE

TAMID at Northeastern University

Boston, MA

Vice President of Operations and Finance

Apr 2025 – Jan 2026

- Spearheaded finance and operations workflows including budgeting, revenue tracking, reimbursements, and event planning across a 100+ member organization, delivering timely financial insights to leadership to support strategic decisions
- Architected a Notion-based operations and finance reporting system, integrating Slack to automate reimbursement notifications on submission and approval, eliminating manual follow-up org-wide and reducing processing time significantly

PROJECTS

Twitter Storage & Retrieval System | Python, MySQL, Redis, SQL

Feb 2026

- Built a Twitter-style backend system with Python, MySQL, and Redis to support tweet posting and home timeline retrieval
- Designed relational schemas and SQL queries for users, tweets, and followers, implementing latest-tweet retrieval at scale
- Developed API-style backend functions like postTweet and getHomeTimeline to simulate social media storage and retrieval
- Benchmarked MySQL vs. Redis performance across 1M tweet insertions and 50K timeline requests, improving insertion throughput from ~3,906 to ~5,574 calls/sec and optimizing read/write efficiency for high-volume social media workloads
- Evaluated relational and in-memory storage tradeoffs for scalable read/write performance in social media workloads

MongoDB News Classification Data Pipeline | Python, MongoDB, JSON, Aggregation Pipelines

Mar 2026

- Built a Python preprocessing pipeline to clean malformed URLs, extract source domains, and transform raw JSONL data into structured, nested MongoDB-ready documents, enabling consistent and scalable ingestion for downstream analytics
- Designed a MongoDB schema with nested headline records, sarcasm labels, article metadata, and derived text features
- Imported and indexed data using mongoimport, enabling scalable querying across source domains and headline-level attributes
- Wrote MongoDB pipelines using \$unwind, \$group, \$project, and sorting logic to calculate sarcasm rates and keyword trends
- Evaluated document-store modeling tradeoffs for nested data retrieval, analytics queries, and flexible schema design

SKILLS & INTERESTS

Computer Skills: Proficient in Java, JavaScript, Python, Git, Kotlin, HTML, CSS, React, Node.js, REST APIs, Excel (VLOOKUP, Power Query, Pivot Tables), PowerPoint, ServiceNow, Salesforce, Tableau, SQL, R, Notion, Slack

Languages: English (fluent), Hindi (fluent), Marathi (fluent)

Interests: Black Belt II in Taekwondo (13 years), Origami, Crochet, and Writing ([blog](#))