Yash Sharma

Austin, TX, 78660 • 512.971.3728 • Sharmayash263@gmail.com • LinkedIn • Personal Website

PROFILE

A motivated Data Scientist with 5 years in data analysis, algorithm design, and software development who applies technical expertise to solve complex problems and deliver measurable results. Skilled in Artificial Intelligence, Big Data management, database systems, front-end development, Python, JavaScript, PyTorch, and SQL.

SUMMARY OF QUALIFICATIONS

- Proficient in data analysis, machine learning, and algorithm design, developing solutions from complex datasets.
- Skilled in full-stack development using Python, Java, JavaScript, ReactJS, Node.js, and PostgreSQL for integrated applications.
- Experienced in predictive modeling, AI, and statistical analysis to inform decision-making and optimize processes.
- Strong technical collaborator, capable of designing and implementing projects that integrate analytics, software systems, and database management.

TECHNICAL SKILLS

- **Programming Languages:** HTML, CSS, Python, C, Java, JavaScript, Linux, SQL, X86 Assembly.
- **Systems/Libraries:** SciPy, NumPy, MongoDB, Pandas, Matplotlib, PyTorch, ReactJS, Scikit-learn, Git/GitHub.
- **Areas of Expertise:** Machine Learning, Data Manipulation/Visualization, Algorithm & Database Design/Optimization, Artificial Intelligence.

EDUCATION

Master of Science in Data Analytics and Information Systems - *Texas State University, Round Rock, TX* May 2026

Bachelor of Science in Computer Science - *Texas Tech University, Lubbock, TX* Dec 2024

- **Minor:** Mathematics

EXPERIENCE

Guest-Lecturer - *Texas State University, Round Rock, TX* Apr 2025

- Delivered an interactive lecture, *"Patterns in Pixels: What Data Reveals About AI-Generated Art,"* a timely analysis of trends in the fast-growing AI art market.
- Analyzed large datasets on creator types, pricing models, and audience engagement using Python, Pandas, and Matplotlib.
- Shared data visualization and predictive modeling techniques with peers, highlighting how analytics can uncover real-world patterns in emerging fields.

Data Analytics & Business Systems Intern - *Onsemi, Scottsdale, AZ* May 2025 - June 2025

- Analyzed semiconductor process, including BOMs, inventory management, and production workflows, to uncover trends and drive operational improvements.
- Developed and maintained Power BI dashboards and automated reporting pipelines, increasing operational visibility and enabling data-driven decision-making for multiple teams.
- Collaborated with engineering and operations teams to streamline processes, applied predictive modeling and statistical analysis to production and inventory data, generating actionable insights that informed process optimization and planning.

PROJECTS

NASA, Amazon Web Services, Oak Ridge National Laboratory (HPCC) *–2023 Winter Classic Invitational Student Cluster Competition*, Lubbock, TX Apr 2023

- Operated and optimized a small HPC cluster under strict power and performance constraints, benchmarking HPL (LINPACK) & HPCG, & building/tuning the WRF (Weather Research & Forecasting) model with weekly mentorship from NASA, AWS, & ORNL; resolved performance bottlenecks, balanced workloads across nodes, optimized memory usage, & refined computational workflows to maximize cluster efficiency.
- Earned 3rd place nationwide [Team Matador], outperforming teams from institutions such as California Polytechnic State University and contributing to Texas Tech's strong national standing in HPCC competitions.

CollaBand: Music Collaboration Platform (HTML, CSS, Python, JavaScript, ReactJS, Node.js) - *CS 4366 Senior Capstone, TTU, Lubbock, TX* Aug 2024 - Dec 2024

- Built a real-time, full-stack music collaboration platform, implementing PostgreSQL database schemas to store project data, track user activity, and synchronize edits across multiple users.
- Created a responsive front-end with ReactJS, HTML, and CSS, ensuring seamless interaction with the backend and accessibility for all users.

Pac-Man Multi-Agent System Development (Machine Learning Algorithms) - *Intro to Artificial Intelligence TTU, Lubbock, TX* Mar 2023

- Enhanced Reflex Agent by improving the ReflexAgent to play by considering both food and ghost locations, achieving reliable performance on various layouts/applications, thereby enhancing customer accessibility and usability
- Optimized pathfinding by implementing A* algorithm for efficient pathfinding, significantly improving the agent's performance
- Increased search efficiency by utilizing alpha-beta pruning to efficiently explore the minimax tree, achieving significant speed-ups in search depth on various board layouts.

Voltage to Applied Pressure Instrument Prediction Tool (Python) - *Computational Thinking and Data Science TTU, Lubbock, TX* Dec 2020

- Developed a predictive tool using Python to estimate applied pressure from voltage readings, leveraging Pandas for data manipulation, visualization, and modeling on large datasets to enhance prediction reliability and inform data-driven decisions

ACTIVITIES / INVOLVEMENT / HONORS_____

Member - *Indian Student Association Club, TTU, Lubbock, TX* Sept 2020 - Dec 2024

- Attended meetings and engaging in cultural events, organizing cultural showcases, and fostering community among fellow Indian students

Professional Leadership Camp - *First Year Leadership Institute, TTU, Lubbock, TX* Nov 2020

- Met continuously for 8 weeks to develop professional behavior, leadership, communication, efficiency, and team-building skills consistent with university values

Member - *Texas Tech Math Club, TTU, Lubbock, TX* Feb 2022 - Dec 2024

- Engaged in monthly meetings and workshops to develop personal and professional mathematical, problem-solving, analytical skills within the math club, and providing students with resources for their courses

Hackathon Participant - *HackWestTX, Lubbock, TX* Sept 2023

- Developed Python-based tools for data visualization and modeling, generating interactive 2D graphs and charts to present insights.
- Designed and implemented formulas for accurate computations, translating mathematical logic into efficient, functional Python code.

Leadership Camp - *Marine Corps Junior Reserve Officer Training Corps, Austin, TX* Aug 2017 - May 2020

- Earned promotions to Cadet Corporal (2018/19) and First Sergeant (2019/20), leading and mentoring a company of 20+ cadets in daily activities, lesson plans, and physical training; provided guidance and support to peers, fostering teamwork, discipline, and personal growth.
- Designed, planned, and delivered training sessions across academic, physical, and leadership domains, modeling core values of responsibility, integrity, and accountability, while helping cadets develop practical skills and confidence for both military and academic environments.

Awardee - *Marine Corps Junior Reserve Officer Training Corps, Austin, TX*

- Recognized for distinguished Military Training, Distinguished Conduct, Arts and academics, Longevity and Fidelity, Best Drill Cadet, Orienteering Awards

STEM MicroMajor Awardee - *The University of Texas at Austin Award Austin, TX* Feb 2020

- Honored for demonstrating initiative, time management, communication, and academic excellence across STEM coursework, reflecting dedication and high achievement in the field.