

Yash Sharma

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I am a motivated Data Scientist with 4 years of experience in data analysis, algorithm design, and software development. My expertise involves Artificial Intelligence, Big Data visualization and management, and Front-End Development. I am passionate about leveraging data-driven insights to solve complex problems and deliver impactful solutions.

Education

Texas State University, Round Rock, TX
M.S in Data Analytics and Information Systems

Starting Jan 2025

Texas Tech University, Lubbock, TX
Bachelor of Science in Computer Science
Minor in Mathematics

Dec 2024

Technical Knowledge

Programming Languages: HTML, CSS, Python, C, Java, JavaScript, Linux, SQL, X86 Assembly
Systems/Libraries: SciPy, NumPy, MongoDB, Pandas, Matplotlib, ReactJS, Git/GitHub/GitBash
Areas of Expertise: Data Manipulation, Computations, Algorithm Design, Artificial Intelligence

Experiences and Projects

NASA, Amazon Web Services, Oak Ridge National Laboratory (HPCC)

Apr 2023

2023 Winter Classic Invitational Student Cluster Competition, Lubbock, Texas

- Challenged to operate a small cluster of computers to run a series of scientific applications under a power budget while receiving weekly guidance from companies like Amazon Web Services, NASA, and Oak Ridge National Laboratory.
- Placed 3rd Nationwide: Beat universities such as California Polytechnic State University.

[CollaBand: Music Collaboration Platform](#) (HTML, CSS, Python, JavaScript, React)

Aug-Dec 2024

CS 4366 Senior Capstone, TTU, Lubbock, Texas

- Developed a collaborative music platform that allows musicians to create, share, and manage music projects in real-time, enhancing the collaborative experience.
- Integrated music notation and editing tools to facilitate seamless collaboration among users.
- Utilized front-end technologies like HTML, CSS, and JavaScript to create a responsive user-friendly interface to ensure ease of use and accessibility for all users, regardless of their technical proficiency.

Pac-Man Multi-Agent System Development (Machine Learning Algorithms)

Mar 2023

Intro To Artificial Intelligence TTU, Lubbock, Texas

- Enhanced Reflex Agent by improving the ReflexAgent to play by considering both food and ghost locations, achieving reliable performance on various layouts.
- Optimized Pathfinding by implementing A* algorithm for efficient pathfinding, significantly improving the agent's performance.
- Optimized 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)

Dec 2020

Computational Thinking and Data Science TTU, Lubbock, Texas

- Developed and worked on large data sets to design and execute a prediction tool for accurate prediction, employing Python libraries such as Pandas for effective data manipulation, visualization, and modeling.
- Implemented Data visualization, modeling, and computations by utilizing regression models to enhance prediction accuracy and reliability.

Clubs and Awards

Texas Tech Indian Student Association (On-campus Club)

Sept 2020 - Dec 2024

Indian Student Association Club TTU, Lubbock, Texas

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

First Year Leadership Institute (Professional Leadership Camp)

Nov 2020

FYLI TTU, Lubbock, Texas

- Applied and accepted into FYLI and met continuously for 8 weeks to develop professional behavior, leadership, communication, efficiency, and team-building skills consistent with university values

Texas Tech Math Club (On-campus Club)

Feb 2022 - Dec 2024

Math Club TTU, Lubbock, Texas

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

HackWestTX (Hackathon)

Sept 2023

HackWestTX, Lubbock, Texas

- Developed a code for data visualization and modeling displayed as 2D graphs and charts.
- Designed a formula to ensure proper and accurate calculations and translated it into Python, allowing for a review of Python's code.

Marine Corps Junior Reserve Officer Training Corps (Leadership Camp)

2016-2020

MCJROTC, Austin, Texas

- Promoted to Cadet Corporal (2018/19), and First Sergeant (2019/20), demonstrating outstanding proficiency, leadership, and conduct within the Marine Corps Junior Reserve Officer Training Corps.
- Given command and led my own company, upwards of 20+ cadets, instilling core values such as responsibility, dependability, integrity, and discipline. Lead them in day-to-day tasks, class lessons, and weekly workouts within school grounds.

Marine Corps Junior Reserve Officer Training Corps (Award)

2016-2020

MCJROTC, Austin, Texas

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

University of Texas Austin STEM MicroMajor Award (Award)

Feb 2020

University Of Texas, Austin, Texas

- The award was given to students for showing initiative, time management, communication, and academic initiative throughout their courses within the STEM field.