Sriya Parameshwar

737-600-2303

sriya.param@tamu.edu

Austin, TX

Dynamic Machine Learning Researcher at Texas A&M, adept in data analysis and project management. Spearheading groundbreaking research to classify swimming skills, aiming to reduce global drowning fatalities through data-driven solutions. Passionate about leveraging technology for social good.

EDUCATION

TEXAS A&M UNIVERSITY
College of Engineering | BS, Computer Science Honors
2023-2027
Current GPA: 3.95

AWARDS

Second Place Research Presentation - Public Health Category
Student Research Week 2025, Texas A&M University

- Awarded second place in the public health category for current machine learning-driven swimming skill classification research.
- Competed among 900+ undergad and graduate participants in the largest student research symposium in the country.
- One of fewer than 90 monetary prize winners for exceptional research and presentation.

Fourth Place Nationwide Hackathon (AI Dementia Assistant Project)
TIDAL Hack hosted by Texas A&M University 2025

- Built an AI-powered dementia assistant using Gemini-2.0-Flash, enabling real-time speech-to-text, AI-driven responses, and text-to-speech for patient interaction.
- Flask-based caregiver portal with mood analysis feature.

INDEPENDENT PROJECTS

Software Web Application, 2023

- Worked on and created a functional software web application, Achoo.
- Used HTML, Java, and GitHub.
- Focused on accessibility and user-centered design

CLUBS/ORGANIZATIONS

Engineers without Borders, Texas A&M, Member, August 2023 - May 2024

- Developed a Solar-powered Oxygenation Device to remove pollutants from a local pond to improve oxygenation and water quality.

Women in STEM Club President,
August 2021 - May 2023

- Planned and executed talks, presentations, and STEM camps in my area elementary schools to engage more women in STEM fields.

EXPERIENCE

Software Engineering Intern - AI/ML & Product Integration
RCP Inc. (Remote), May 2025 - Present

- Rebuilt a legacy Microsoft Access system using Retool, creating a dynamic UI that interfaces with SQL Server
- Architected end-to-end data flow of Retool site: parsed large data files, validated user input, and triggered backend logic via custom queries and workflows
- Engineered a machine learning forecasting pipeline in Python using XGBoost, deployed on Azure, to detect electrical infrastructure anomalies with <5% error
- **Tech Stack:** Python, Azure, XGBoost, SQL, Docker, JavaScript, Retool

Machine Learning Researcher
Texas A&M Computer Science & Engineering Department, College Station TX, SRL Lab, Feb 2025 - Present

- Leading the development of a machine learning system to objectively classify swimming skill levels, eliminating biases in traditional assessments.
- Analyzing and annotating a dataset of 45 swimmers, extracting over 3,000 performance metrics based on the Texas Swimming School's 10-stage framework.

Engineering Intern
Lubrizol, Berkshire Hathaway Company, Co-op Program, Houston TX, May 2024 - August 2024, Full-time

- Worked on projects involving process optimization, safety improvements, system troubleshooting, and recommended/implemented equipment changes.
- Worked on a Power BI based coding project to pull, organize and utilize large amounts of engineering data from a DataCast data source.

Engineering Research Lab Assistant
Texas A&M Biomedical Engineering Department, College Station TX, Jan 2024 - May 2024

- Worked 7 hrs/week (in lab)
- Assisted Ph.D. Dr. Melissa Grunlan, in developing a self-cleaning membrane to extend glucose biosensor lifetime

Senior Swim Instructor/Deck Monitor
Waterloo Swim School, Austin TX, April 2021 - May 2024

- Mentored and trained incoming instructors.
- Conducted swim lessons in private and group settings

STEM Intern, Elected Team Lead
City of Austin, Summer 2021

- Lead a team of interns to deliver a Health Tech Software Application.
- Presented to senior City of Austin executives