

# Visar Rraci

vis.rraci@gmail.com • Shreveport, LA • 318.505.1682 •

## EDUCATION

Louisiana State University Shreveport (LSUS) | Shreveport, Louisiana

**Master of Science** | *December, 2025*

Major: **Computer Systems Technology** | Concentration: **Artificial Intelligence and Machine Learning**

CGPA: 4.0

Centenary College of Louisiana | Shreveport, Louisiana

**Bachelor of Political Science** | *May, 2024*

Minor: **Legal Studies**

GPA: 3.9

## SKILLS AND CERTIFICATIONS

**Machine Learning Tools:** TensorFlow, Scikit-learn, FastICA, MFCCs, CNNs, LLMs

**Data Analytics:** Pandas, NumPy, Feature Extraction, Preprocessing Audio Data

**Web Development:** HTML, CSS, JavaScript, React

**Software Development & Tools:** Git, Docker, Azure DevOps, CI/CD Pipelines, SQL, PHPUnit

## PROJECTS AND PUBLICATIONS

**Speech Classification for RHD Diagnosis Model (Python, Machine Learning)** *Sep 2024 – Mar 2025*

Louisiana State University Shreveport | Shreveport, LA | Published at (IEEE)

*Classification of Right Hemisphere Damage Using MFCC Paralinguistic Voice Features*

- Achieved 79% accuracy (AUC: 0.88) using Support Vector Machine (SVM), validated with group-based cross-validation.
- Extracted and aggregated 13 MFCC coefficients per audio frame to identify distinct speech patterns.
- Processed NIH TalkBank dataset using denoising, voice activity detection (VAD), and normalization for improved speech clarity.

**Extensible Computerized Inventory Management System (ECIMS)** *Sep 2024 – present*

Louisiana State University Shreveport | Shreveport, Louisiana

*Front-End Development for an Inventory Management System designed for Single-Location Businesses*

- Developed responsive login and sign-up pages using HTML, CSS, and React from Figma designs.
- Created interactive Figma storyboards detailing user flows for inventory, reorder processes, and supplier interactions.
- Integrated front-end with backend functionality using JavaScript and Python.

## RELEVANT PROFESSIONAL EXPERIENCE

**Business and Financial Analyst - Intern** *May 2025 - present*

EAP Biomedical Research Foundation | Shreveport, Louisiana

- Conducting research on AI implementations for Market Analysis and Workflow Automation.
- Supporting strategic decision-making for startups and new businesses through data-driven insights.
- Collaborating with team to integrate AI-assisted evaluation methods in the startup selection process.

**Lab Research Associate** *Sep 2024 - present*

LSUS Computer Science Department | Shreveport, Louisiana

- Conducting research on Deep Learning implementations for Right Hemisphere Damage diagnosis.
- Co-writing, co-editing, and contributing to research papers on AI and Machine Learning models.
- Supporting faculty and graduate students in AI/ML research, experimentation, and publication efforts.