

Yaju Gopal Shrestha

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Education

THE UNIVERSITY OF SOUTHERN MISSISSIPPI

Bachelor of Science in Computer Science and Economic Data Analytics | 4.0 GPA

Hattiesburg, MS

May 2025

HONORS AND AWARDS

Presidents List (4.0 GPA)

Danny R. Carter Scholarship

Honors College Scholarship

Academic Excellence Scholarship

Fall 2021, Spring 2022

Fall 2022 – Spring 2025

Fall 2021 – Spring 2025

Fall 2021 – Spring 2025

Research

SCHOOL OF COMPUTING SCIENCES AND COMPUTER ENGINEERING | The University of Southern Mississippi

Data Science and Machine Learning Researcher

September 2022 – Present

Project: Adversarial attack Detection Using Machine Learning (Advisor: Dr. Nick Rahimi)

- Created a Python script using SciPy library to evaluate the Euclidean distance between all data in dataset of around 150,000

Data Science and Machine Learning Researcher

May 2022 – August 2022

Project: SMS Malware Detection: A Machine Learning Approach (Advisor: Dr. Nick Rahimi)

- Programmed a Python script that automates the cleaning and analysis of CICAndMal2017 dataset
- Designed another Python script that automates the creation of different, commonly-used machine learning models using Scikit-learn library
- Ran cleaned CICAndMal2017 dataset through the highest-performing machine learning models.

Impact:

- Developed a Machine Learning Model with 94.6% accuracy in detecting SMS malware
- Accepted by IEEE CPS for publication (October 2022)

Personal Projects

THE UNIVERSITY OF SOUTHERN MISSISSIPPI

Personal Project

June 2022 – Present

Project: Sign Language Detection Using LSTM Model (Independent)

- Used open CV and MediaPipe classifiers to create a Python script for data collection
- Developed an LSTM model using TensorFlow that can successfully recognize common sign language alphabet

Work

DEPARTMENT OF HOUSING AND RESIDENCE LIFE | The University of Southern Mississippi

Resident Assistant

August 2022 – Present

- Enforces rules as outlined by the university, including supervising residents and responding to complaints, requests, and emergencies
- Completes and files reports on infractions, violations, and safety issues
- Organizes and advertises residence hall events

Computer Skills and Proficiencies

Languages: C++, Html, CSS, Python 3 (Machine Learning), JavaScript

Proficiencies: Git, GitHub, Adobe Illustrator (Digital Illustrations)

Skills: Data Structures, Object-Oriented Programming (OOP), Machine Learning, Data Science, Data Analysis, Natural Language Processing (NLP)

Involvements

IBM | zSystem Student Ambassador

April 2022 – Present

Honors College Leadership Council | First Year Mentor

April 2022 – Present

School of Computing Sciences and Computer Engineering (CSCE) | CSCE Ambassador

October 2021 – Present