

# Sanuja Rubasinghe

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## Undergraduate

Data Science undergraduate specializing in **Computer Vision** and **NLP**, with hands-on experience building **RAG-based systems**, **transformer pipelines**, and real-time AI-powered applications.

## EDUCATION

### Bachelor of Science – BS in Information Technology specializing in Data Science

SLIIT

01/2023 – 12/2028

## PROJECTS

### NeuroDetect: Brain Tumor Analysis

01/2026 – 01/2026

Developed an end-to-end deep learning pipeline for automated brain tumor analysis using MRI scans. The system features a ResNet50 classifier (~88% accuracy) for tumor type identification (Glioma, Meningioma, Pituitary) and a custom U-Net model for precise pixel-level tumor segmentation. Deployed with an interactive Gradio web interface for real-time inference.

### SentinAI: Real-Time Violence Detection & surveillance Platform

12/2025 – 12/2025

Designed and developed a production-grade AI surveillance dashboard capable of detecting violent activity in real-time video feeds. The system bridges complex computer vision models with a modern, responsive web interface to provide actionable security insights.

### Financial Sentiment Intelligence Platform | NLP & Full-Stack Development

12/2025 – 12/2025

Developed a real-time analytics dashboard using **Python (Flask)** and **NLP** to analyze financial sentiment from live Twitter/X streams. Implemented **Twitter-RoBERTa transformers** for sentiment classification and **BERTopic** for dynamic clustering of market trends. Engineered a robust data pipeline with custom API integration and rate limiting to provide traders with high-availability, real-time market insights.

## CERTIFICATIONS

### PyTorch for Deep Learning

01/2026 – 01/2026

DeepLearning.AI

### IBM AI Engineering specialization

10/2025 – 12/2025

IBM

### Go – The Complete Guide

08/2025 – 08/2025

Udemy

### The Data Science Course: Complete Data Science Bootcamp 2023

08/2023 – 09/2023

Udemy

## SKILLS

- C/C++
- Deep Learning
- DSA
- Java
- Machine Learning
- NoSQL
- OOP
- SQL
- Web Development