



# Adventist University of Central Africa

P.O. Box 2461 Kigali, Rwanda | [www.auca.ac.rw](http://www.auca.ac.rw) | [info@auca.ac.rw](mailto:info@auca.ac.rw)

Faculty of Information Technology

Department [Master's of Science in Big Data Analytics]

Assignement

**Academic year:** 2024-2025, Semester 2

**Course Code:** MSDA 9213 **Name:** Data mining and Information retrieval

**Date:** 6th July 2025

**Due Date:** 13<sup>th</sup> July 2025

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## Objective:

This assignment aims to test your understanding of **Sentimental analysis and Webscraping**. You will be required to:

1. Perform a sentimental analysis on Rwandan context
  2. Scrape data from an external website, store it in a structured format.
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## Part 1: Construct a Simple Web Page and Perform Web Scraping

**Task 1.1:** Perform a comprehensive sentimental analysis on a subject that matter at national Level

## Part 2: Perform Web Scraping on a Real Web Page

**Task 2.1:** Choose a Website to Scrape

**Task 2.2:** Scrape Data from the Website

## Deliverables:

1. **Comprehensive report** on sentimental analysis
2. **Web Scraping Code for Real Website:** Python code that scrapes data from a live website (e.g., quotes page) and stores the results in a **pandas DataFrame**.
3. **CSV File (Optional):** Save the scraped data from the real website into a CSV file (`quotes.csv`)