Faculty of Computing and Informatics
Name of Department: Informatics

COURSE ASSESSMENT 2021

COURSE DETAILS

Course Code:	DSA821S	Semester:	2
Course Title:	Data Science and Analytics		
Lecturers:	Coordinators:	Primary: Dr Lameck Mbangula Amugongo	

COURSE WORK

Assessment Number:	2	of	5
Title of Assessment:	Apply AI techniques COVID-19 Data		
Formats:	Source Code	Demonstration	Report
Method of Working:	Individual		
Workload Guidance:	Expect to spend about 100 hours on this assignment		
Length of Submission:	Report	In total should not be more than **5000** words	

PUBLICATION

Date of Issue:	Friday 29 October 2021 (Semester 2, Week 4)

SUBMISSION

Soft Copy:	You are expected to submit the **source code** of your zipped. The name of the zipped file should be your student number. Your source code should also be available on GitHub. The report which should be in 2 formats (**Word** and **PDF**) should both be named after your group name. As for the source code, do not change the name of the source code different from the provided prototype source. You are to make your submission in your folder on MS teams. Additionally, a link to the GitHub repository should

	also be provided. The submission due date is Friday 29th October 2021. **Note:** No excuse will be entertained for wrong file or document submission.
Hard Copy:	Not required
Late Submission:	Late submission will not be entertained without prior approval. Request for extension should be made not less than 3 days to the submission open date (26th October 2021).
Multiple Hand-ins:	Multiple hand-ins would imply the use of unfair means and therefore will not be entertained. Under such circumstances, the first submitted version will be considered. Note that you can submit updated versions of your assignment but ensure that you overwrite the existing copy. Also, ensure that the contents of both formats of the soft-copy are the same.
Time and Date for Submission:	**Date** Friday 29th October 2021 **Time** 17:00pm

ASSESSMENT

The Assessment is:	30%	out of	100% final mark

Assessment Strategy

The assessment strategy is designed to evaluate the student's achievement of the course learning outcomes, and is subdivided as follows:

Learning Outcome ID	Description	Method of Assessment
1	Demonstrate knowledge and understanding of AI and machine learning	Source code, demonstration and report
2	Evaluate and apply advanced deep learning concepts	Source code and report

3	Develop a robust and efficient Model.	Source code and demonstration
4	Novelty and creativity.	Source code and Demonstration
Assessment Criteria:	Contributes to Learning Outcomes	Mark
Source code	2, 3, 4, 5	50
Demonstration	2, 4, 5	20
Report	2, 3	30

FEEDBACK

Feedback will be given via:	Via marking sheet
How long after submission will it be available:	Not later than 2 weeks after the submission deadline.

The novel COVID-19 has devastated and brought economies world-over to a standstill. COVID-19 is a new respiratory virus first identified in Wuhan, Hubei Province, China. Building on your first assignment, this assignment requires you to develop automatic dashboards. The dashboard should allow users to query and customize visualisations.

Assignment Details

The assignment requires you to implement a program that does the following.

- Create dashboard visualisations.
- Allow for ease customisation of visualisations.
- Allow users to search and filter visualisations.

NB!!! The data will be verified for accuracy.

You will be expected to demonstrate the operation of your code for about 10 minutes and also answer any questions that may pop up sequel to the demonstration.

-- End of Assignment --