

Originality report

COURSE NAME

BE Project Phase II AY 2021-22

STUDENT NAME

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FILE NAME

Phase2_grp9

REPORT CREATED

25 May 2022

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1 of 14 passages

Student passage

QUOTED

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We...

Top web match

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included...We also declare that we have adhered to all principles of academic...

DECLARATION — SRS for AakashTechSupport 1.0.1 documentation <https://aakashtechsupportdocs.readthedocs.io/en/latest/declaration.html>

2 of 14 passages

Student passage

QUOTED

...hamper the conventional functioning of the shape of brain. **For correct diagnosis and efficient treatment planning, it is necessary to detect the brain tumour in the early stages**

Top web match

For proper diagnosis and efficient treatment planning, it is necessary to detect the brain tumor in early stages. Digital image processing plays a vital role in analysis of medical images.

Investigating Brain Tumor Segmentation and Detection Techniques <https://www.sciencedirect.com/science/article/pii/S1877050920306542>

3 of 14 passages

Student passage

QUOTED

Digital image processing plays an important role in the analysis of medical images. Segmentation of tumours involves the separation of abnormal brain tissues from normal tissues of the brain. Over...

Top web match

Digital image processing plays a vital role in analysis of medical images. Segmentation of brain tumor involves separation of abnormal brain tissues from normal tissues of brain. In the past, various...

4 of 14 passages

Student passage

QUOTED

The report is divided into 6 chapters. Chapter 1 deals with the basic introduction of the...

[Top web match](#)

After discussing the key themes that run throughout the report and laying out recommendations for government and policy makers, **the report is divided into 6 chapters:**.

Chief Medical Officer's annual report 2021: health in coastal ... <https://www.gov.uk/government/publications/chief-medical-officers-annual-report-2021-health-in-coastal-communities>

5 of 14 passages

Student passage

CITED

...results (unsupervised classification) of MRS brain tumour data. **Data reduction** is performed **using Laplacian eigenmaps (LE) or independent component analysis(ICA)**

[Top web match](#)

Data reduction using Laplacian eigenmaps (LE) or independent component analysis (ICA) was followed by k-means clustering or agglomerative hierarchical clustering (AHC) for unsupervised learning to...

Publications - Dr Guang Yang - Imperial College London <https://www.imperial.ac.uk/people/g.yang/publications.html?respub-action=citation.html&id=735643&noscript=noscript>

6 of 14 passages

Student passage

CITED

was then followed by k-means clustering or agglomerative hierarchical clustering (AHC) for unsupervised learning to assess tumour grade and for tissue type segmentation of MRSI data. Based on the...

[Top web match](#)

Data reduction using Laplacian eigenmaps (LE) or independent component analysis (ICA) **was followed by k-means clustering or agglomerative hierarchical clustering (AHC) for unsupervised learning to...**

Manifold Learning in MR spectroscopy using nonlinear ... https://www.researchgate.net/publication/265417205_Manifold_Learning_in_MR_spectroscopy_using_nonlinear_dimensionality_reduction_and_unsupervised_clustering

7 of 14 passages

Student passage

QUOTED

divided into the following categories: Thresholding techniques, Region growing techniques, Edge based techniques, Clustering techniques, Watershed technique, and Deformable model-based techniques.

[Top web match](#)

Segmentation techniques are generally **divided into the following categories (6): Thresholding techniques, Region growing techniques, Edge based techniques, Clustering techniques, Watershed technique,**...

Investigating Brain Tumor Segmentation and ... - ScienceDirect.com <https://www.sciencedirect.com/science/article/pii/S1877050920306542/pdf?md5=00993a9778f5c943a0cbe6dd02213468&pid=1-s2.0-S1877050920306542-main.pdf>

8 of 14 passages

Student passage

QUOTED

Pre-processing is the name for operations on images at the lowest level of abstraction whose aim is an improvement of the image data that suppress undesired distortions or enhances some image features...

[Top web match](#)

Image **pre-processing** is the name for operations on images at the lowest level of abstraction whose aim is an improvement of the image data that suppress undesired distortions or enhances some image features...

IMAGE PRE-PROCESSING TOOL - ResearchGate https://www.researchgate.net/publication/237126363_IMAGE_PRE-PROCESSING_TOOL

9 of 14 passages

Student passage

FLAGGED

• LaTeX Editor : **LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation**

[Top web match](#)

LaTeX -- a document preparation system **LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation.**

LaTeX - A document preparation system <https://www.latex-project.org/>

10 of 14 passages

Student passage **FLAGGED**

Streamlit is an open-source python framework for building web apps for Machine Learning and Data Science. We can instantly develop web apps and deploy them easily using Streamlit. Streamlit allows...

[Top web match](#)

Streamlit is an open-source python framework for building web apps for Machine Learning and Data Science. We can instantly develop web apps and deploy them easily using Streamlit. Streamlit allows you...

Streamlit Web App | Build Web Applications using ... - Analytics Vidhya <https://www.analyticsvidhya.com/blog/2021/06/build-web-app-instantly-for-machine-learning-using-streamlit/>

11 of 14 passages

Student passage **QUOTED**

Step 6 : **Splitting data into train, test, and validation.**

[Top web match](#)

Splitting data into train, test, and validation sets is a repetitive task. You will need to perform the split every time you run your machine learning models.

How to Split your Dataset to Train, Test and Validation sets? [Python] <https://www.malicksarr.com/split-train-test-validation-python/>

12 of 14 passages

Student passage **QUOTED**

Transfer learning is a machine learning concept **where a pre-trained model** is reused or retrained **as the base layer for a model on a new task**. In simple words, an already trained model on one...

[Top web match](#)

In other words, **transfer learning is a machine learning** method **where we reuse a pre-trained model as the starting point for a model on a new task**.

What Is Transfer Learning? [Examples & Newbie-Friendly Guide] <https://www.v7labs.com/blog/transfer-learning-guide>

13 of 14 passages

Student passage **QUOTED**

...is repurposed for a second, related task. This acts **as an optimization that allows rapid progress when modelling the second task** is taking place. As observed in figure 4.2 it...

[Top web match](#)

To put it simply--a model trained on one task is repurposed on a second, related task **as an optimization that allows rapid progress when modeling the second task**.

What Is Transfer Learning? [Examples & Newbie-Friendly Guide] <https://www.v7labs.com/blog/transfer-learning-guide>

14 of 14 passages

Student passage **FLAGGED**

• BatchNormalization : It is a **technique for training very deep neural networks that standardizes the inputs to a layer for each mini-batch**.

[Top web match](#)

Batch normalization is a **technique for training very deep neural networks that standardizes the inputs to a layer for each mini-batch**.

A Gentle Introduction to Batch Normalization for Deep Neural ... <https://machinelearningmastery.com/batch-normalization-for-training-of-deep-neural-networks/>
