Originality report

COURSE NAME
BACS2003 Artificial Intelligence

STUDENT NAME
WEI LUN LOH

FILE NAME
KNN_LOH WEI LUN

REPORT CREATED
May 5, 2023

Summary

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1 of 19 passages

Student passage   FLAGGED

…prone to heart disease or not. This is because **it** will recognize whether the individual is **having any symptoms of heart disease such as high blood pressure**

Top web match

It recognizes who all are **having any symptoms of heart disease such as** chest pain or **high blood pressure** and can help in diagnosing disease with less medical tests and effective treatments, so that…

Heart disease prediction using machine learning ... - IOPscience https://iopscience.iop.org/article/10.1088/1757-899X/1022/1/012072/pdf

Student passage   FLAGGED

…bar chart of the gender distribution inside the dataset. **The orange bar represents the number of** males **and the** purple **bar represents the number of** females in the dataset. The total number of males…

Top web match

The orange bar represents the number of boys, **and the** yellow **bar represents the number of** girls.

5.2 Bar chart - Statistique Canada https://www150.statcan.gc.ca/n1/edu/power-pouvoir/ch9/bargraph-diagrammeabarres/5214818-eng.htm

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Student passage   FLAGGED

K-Nearest Neighbor (KNN) algorithm The KNN algorithm is **a** popular **supervised machine learning algorithm that can be used** for **both** classification and **regression problems**

Top web match

K-Nearest Neighbor (KNN) Algorithm for Machine Learning If you are thinking of **a** simple, easy-to-implement **supervised machine learning algorithm that can be used** to solve **both** classifications as well…

K-Nearest Neighbor in Machine Learning - KnowledgeHut https://www.knowledgehut.com/blog/data-science/knn-for-machine-learning

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Student passage   FLAGGED

…the distances and selecting the K nearest points. Finally, **the class or value of the** test **point** is assigned **based on the majority class or** average **value of the**

Top web match

KNN works in three main steps: (1) calculating the distance between the query point and each training point, (2) selecting the k-nearest neighbors to the query point, and (3) predicting **the class or**…

K Nearest Neighbor: Mastering the KNN Algorithm - ML Course https://arize.com/blog-course/knn-algorithm-k-nearest-neighbor/

Student passage   FLAGGED

…classification models together. This SCV is an extension of **the** usual **stacking algorithm** and by **using** cross validation **to prepare input data** at **the level 2 classifier**

Top web match

The StackingCVClassifier extends **the** standard **stacking algorithm** (implemented as StackingClassifier) **using** cross-validation **to prepare** the **input data** for **the level-2 classifier**.

StackingCVClassifier: Stacking with cross-validation - mlxtend https://rasbt.github.io/mlxtend/user_guide/classifier/StackingCVClassifier/

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6 of 19 passages

Student passage   FLAGGED

…used as the inputs for the level 2 classifier. **However**, through **the concept of** cross validation, it allows **the dataset** to be **split** up **into k folds and in k successive rounds**

Top web match

The StackingCVClassifier , **however**, uses **the concept of** cross-validation: **the dataset** is **split into k folds, and in k successive rounds**, k-1 folds are used to fit the first level classifier; in each…

StackingCVClassifier: Stacking with cross-validation - mlxtend https://rasbt.github.io/mlxtend/user_guide/classifier/StackingCVClassifier/

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7 of 19 passages

Student passage   FLAGGED

The k-1 folds will be **used to fit the level** 1 **classifier** and after that **in each round, the remaining 1 subset that was** applied to the level 1 classifier will be added **in each iteration**

Top web match

The StackingCVClassifier , however, uses the concept of cross-validation: **the** dataset is split into k folds, and in k successive rounds, **k-1 folds** are **used to fit the** first **level classifier; in each**…

StackingCVClassifier: Stacking with cross-validation - mlxtend https://rasbt.github.io/mlxtend/user_guide/classifier/StackingCVClassifier/

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8 of 19 passages

Student passage   FLAGGED

Roc Curve is used to **summarize the trade off between the true positive rate and false positive rate for** the **predictive model using different probability thresholds**

Top web match

ROC Curves **summarize the trade-off between the true positive rate and false positive rate for** a **predictive model using different probability thresholds**.

How to Use ROC Curves and Precision-Recall Curves for … https://machinelearningmastery.com/roc-curves-and-precision-recall-curves-for-classification-in-python/

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9 of 19 passages

Student passage   QUOTED

The result of the inputted data is "Warning! **You have a high risk of getting a heart attack**!". Therefore, we are not rejecting H1 and can conclude

Top web match

A study from Washington University found that people over the age of 50 who expressed their anger by lashing out are more likely to have calcium deposits in their coronary artery — and this is a huge…

6 WAYS ANGER CAN AFFECT YOUR HEALTH - eL CREMA https://www.elcrema.com/6-ways-anger-can-affect-your-health/

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10 of 19 passages

Student passage   QUOTED

The result of the inputted data is "Warning! **You have a high risk of getting a heart attack**!". Therefore, we are not rejecting H2 and can conclude

Top web match

A study from Washington University found that people over the age of 50 who expressed their anger by lashing out are more likely to have calcium deposits in their coronary artery — and this is a huge…

6 WAYS ANGER CAN AFFECT YOUR HEALTH - eL CREMA   https://www.elcrema.com/6-ways-anger-can-affect-your-health/

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11 of 19 passages

Student passage   QUOTED

The result of the inputted data is "**You have lower risk of getting a heart disease**!". Therefore, we are not rejecting H3 and can conclude

Top web match

else: st.success('**You have lower risk of getting a heart disease**!') st.sidebar.subheader("About App") st.sidebar.info("This web app is helps you to find out whether you are at a risk of developing a…

HealthApp | Kaggle   https://www.kaggle.com/code/upamanyumukherjee/healthapp

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12 of 19 passages

Student passage   QUOTED

The result of the inputted data is "**You have lower risk of getting a heart disease**!". Therefore, we are not rejecting H4 and can conclude…

Top web match

else: st.success('**You have lower risk of getting a heart disease**!') st.sidebar.subheader("About App") st.sidebar.info("This web app is helps you to find out whether you are at a risk of developing a…

HealthApp | Kaggle   https://www.kaggle.com/code/upamanyumukherjee/healthapp

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13 of 19 passages

Student passage   QUOTED

The result of the inputted data is "Warning! **You have a high risk of getting a heart attack**!". Therefore, we are not rejecting H5 and can conclude

Top web match

A study from Washington University found that people over the age of 50 who expressed their anger by lashing out are more likely to have calcium deposits in their coronary artery — and this is a huge…

6 WAYS ANGER CAN AFFECT YOUR HEALTH - eL CREMA   https://www.elcrema.com/6-ways-anger-can-affect-your-health/

Student passage   QUOTED

The result of the inputted data is "Warning! **You have a high risk of getting a heart attack**!". Therefore, we are not rejecting H6 and can conclude

Top web match

A study from Washington University found that people over the age of 50 who expressed their anger by lashing out are more likely to have calcium deposits in their coronary artery — and this is a huge…

6 WAYS ANGER CAN AFFECT YOUR HEALTH - eL CREMA   https://www.elcrema.com/6-ways-anger-can-affect-your-health/

Student passage   QUOTED

The result of the inputted data is "Warning! **You have a high risk of getting a heart attack**!". Therefore, we are rejecting H7 and can conclude that…

Top web match

A study from Washington University found that people over the age of 50 who expressed their anger by lashing out are more likely to have calcium deposits in their coronary artery — and this is a huge…

6 WAYS ANGER CAN AFFECT YOUR HEALTH - eL CREMA   https://www.elcrema.com/6-ways-anger-can-affect-your-health/

Student passage   QUOTED

The result of the inputted data is "Warning! **You have a high risk of getting a heart attack**!". Therefore, we are rejecting H8 and can conclude that…

Top web match

A study from Washington University found that people over the age of 50 who expressed their anger by lashing out are more likely to have calcium deposits in their coronary artery — and this is a huge…

6 WAYS ANGER CAN AFFECT YOUR HEALTH - eL CREMA   https://www.elcrema.com/6-ways-anger-can-affect-your-health/

Student passage   FLAGGED

Throughout this assignment, **we** have studied **different types of machine learning algorithms and how they are** being applied into our heart disease prediction application. By…

Top web match

The ml algorithms are automated and self-modifying to continue improving over time. Before **we** delve into the top 10 machine learning algorithms you should know, let's take a look at the **different**…

Top 10 Machine Learning Algorithms You Need to Know in 2023   https://www.simplilearn.com/10-algorithms-machine-learning-engineers-need-to-know-article

18 of 19 passages

Student passage   CITED

Jindal, H. et al. (2021) "**Heart disease prediction using machine learning algorithms**," in IOP
Conference Series: Materials Science and Engineering. IOP…

Top web match

Heart disease prediction using machine learning algorithms. Harshit Jindal1, Sarthak Agrawal1,
Rishabh Khera1, Rachna Jain2 and Preeti Nagrath2.

Heart disease prediction using machine learning algorithms https://iopscience.iop.org/article/10.1088/1757-899X/1022/1/012072/meta

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19 of 19 passages

Student passage   CITED

…al. (2021) "Heart disease prediction using machine learning algorithms," **in IOP Conference Series:
Materials Science and Engineering**

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Jain, and P. Nagrath, "Heart disease prediction using machine learning algorithms," **in IOP Conference
Series: Materials Science and Engineering**, vol. 1022, no.

Heart Disease Prediction using Machine
Learning https://jocc.journals.ekb.eg/article_282098_4b9e9c103330a9a045517d04f3a0a14a.pdf