Originality report

COURSE NAME
BACS2003 Artificial Intelligence

STUDENT NAME
MENG LEONG LIM

FILE NAME
RandomForest_ LIM MENG LEONG

REPORT CREATED
May 4, 2023

Summary

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elcrema.com	3	0.5%
machinelearningmastery.com	1	0.4%
iop.org	2	0.4%
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ekb.eg	1	0.1%

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

2 of 19 passages

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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3 of 19 passages

Student passage FLAGGED

some of the **trees** might **be wrong**, but **other trees will** still **be right so** the result is the **group** of **trees** being **able to move in the correct direction**.

Top web match

While **some trees** may **be wrong**, many **other trees will be right, so** as a **group** the **trees** are **able to move in the correct direction**.

Understanding Random Forest - Towards Data Science https://towardsdatascience.com/understanding-random-forest-58381e0602d2

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4 of 19 passages

Student passage FLAGGED

…subsets from the datasets which is known as bootstrapping. **Random Forest** allows these subset **of** trees **to randomly sample the dataset with replacement** which result **in different trees**

Top web match

Random forest takes advantage **of** this by allowing each individual tree **to randomly sample** from **the dataset with replacement**, resulting **in different trees**.

Understanding Random Forest - Towards Data Science https://towardsdatascience.com/understanding-random-forest-58381e0602d2

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5 of 19 passages

Student passage FLAGGED

…that each tree can split on. This means that **each** of the trees **in** the **random forest can pick only a** curtain **random subset of features** to be further split on. In the application, the…

Top web match

those in the right node. In contrast, **each** tree **in** a **random forest can pick only** from **a random subset of features**.

Understanding Random Forest - Towards Data Science https://towardsdatascience.com/understanding-random-forest-58381e0602d2

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6 of 19 passages

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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7 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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8 of 19 passages

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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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9 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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10 of 19 passages

Student passage QUOTED

“Warning! **You have a high risk of getting a heart attack**!”

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

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12 of 19 passages

Student passage QUOTED

“**You have lower risk of getting a heart disease**!”

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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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

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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

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