Assignment 5 - Question 3

■ Machine Learning / Al ■ 20 points

DESCRIPTION

Q3: After performing the analysis from the previous question, derive a new column called "AdultOrChild" having categorical values as

"Adult" or "Child" derived from Age column

Hint: A person having Age >= 18 is an "Adult" and the one having Age <

18 is a "Child".

1. Find its relation with the "Survived" Column and print the total

number of survivors.

Example:

If Total survived children: 100, Total survived adults: 200

Output: 300

2. Choose features to create a Classification model and predict the

survived category

For the above prediction create a Confusion matrix for the model

built by you and print the sum of all the elements of a matrix

***NOTE: You should create the confusion matrix for the test data not the

training data.

Example: If the Confusion Matrix is [2.2]

Output: 8

Hint: Use Logistic Regression as the classification model

3. Use confusion matrix to print the accuracy of the model

Example: (2+2)/8*100

Output: 50

***NOTE: You should check the accuracy for the test data not the training data.

Final Output Sample:

	Α
1	100
2	200
3	300

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NOTE: Here, 100, 200 and 300 are the answer of 1st, 2nd and 3rd question respectively.

Output Format:

- Perform the above operations and write (written above as print)
 your output to a file named output.csv, which should be present
 at the location /code/output/output.csv
- output.csv should contain the answer to each question on consecutive rows.

***NOTE: For all the questions the numerical values saved in output.csv file should be in integer format with no decimals.

DATASETS

Training dataset ②