

Titanic Dataset - 20 Questions

1. What are the different ways to identify null values in the Titanic dataset?
2. How can you replace null values in the 'Age' column with the mean age of passengers?
3. Write a Python command to replace null values in the 'Embarked' column with the most frequent value.
4. How can you drop rows where all values are null in the Titanic dataset?
5. Using `.loc[]`, how can you filter rows for passengers whose 'Age' is greater than 30?
6. What command would you use with `.iloc[]` to select the first 10 rows and first 3 columns?
7. How can you filter the dataset to show only female passengers using `.loc[]`?
8. Using `.loc[]`, how can you modify the 'Fare' of passengers with 'Pclass' 3 to 0 if the 'Fare' is null?
9. How would you replace null values in multiple columns ('Age' and 'Fare') using their median values?
10. Write a command to count the number of null values in each column of the Titanic dataset.
11. How can you use `.iloc[]` to retrieve data from rows 5 to 10 and columns 2 to 4?
12. Using `.loc[]`, write a command to filter passengers whose 'Fare' is between 50 and 100.
13. What is the difference between using `.loc[]` and `.iloc[]` for indexing and slicing?
14. Write a Python command to fill null values in the 'Cabin' column with 'Unknown'.
15. How can you create a new column 'IsMinor' and set it to True for passengers under 18 using `.loc[]`?
16. Using filtration, how would you find passengers who embarked at 'S' and paid more than 30 in Fare?
17. Write a Python command to drop the 'Cabin' column if it contains more than 70% null values.
18. How can you identify duplicate rows in the Titanic dataset and drop them?
19. Using `.iloc[]`, how would you retrieve the last 5 rows of the dataset?
20. How can you filter passengers who survived and belonged to 'Pclass' 1 using `.loc[]`?