

Application n1

“ Predict which passengers survived the Titanic “

1) Data :

=> explore Titanic dataset (input ? output ? ...)

hint:

```
import pandas as pd  
pd.read_csv("path_to_csv") and more same as last session code
```

2) Split the data :

=> Split the data to train and test data to fit and test the model (choose the test size in %)

hint :

```
from sklearn.model_selection import train_test_split
```

3) Models :

=>train 4 different models : RandomForestClassifier,DecisionTreeClassifier, SVC, KNeighborsClassifier

hint :

```
from sklearn.ensemble import RandomForestClassifier  
from sklearn.tree import DecisionTreeClassifier  
from sklearn.svm import SVC  
from sklearn.neighbors import KNeighborsClassifier
```

4) Compare results (best model ? Worst model ?)