

TITANG

WAS IT BETTER TO BE RICH, LUCKY, OR JUST NEAR A LIFEBOAT ON THE TITANIC?

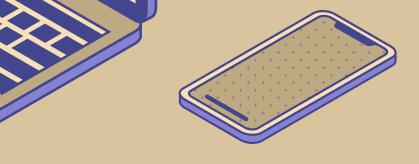
let's figure out!!

INTRODUCTION

"The Titanic disaster of 1912 claimed over 1,500 lives, but could survival have been predicted based on passenger data? This project explores the question: "Could your ticket class, age or gender have saved you on the Titanic? Let the data speak !!!!!"

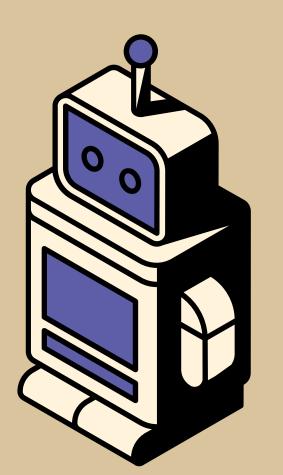
HOW IS THAT GOING?

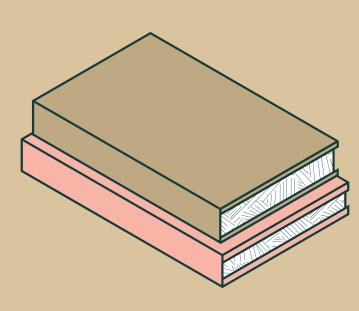
STEP STEP STEP STEP STEP Collect and Random Forest make a KNN coding part clean the data conclusion Developing a Developing a fun part!!!! & model from model from now we gonna decide visualusation scratch to predict scratch to predict if you gonna survive or not:/ based on the based on the KNN KNN algorithm algorithm and and comparing it comparing it with with the the implementation implementation in scikit-learn. in scikit-learn.





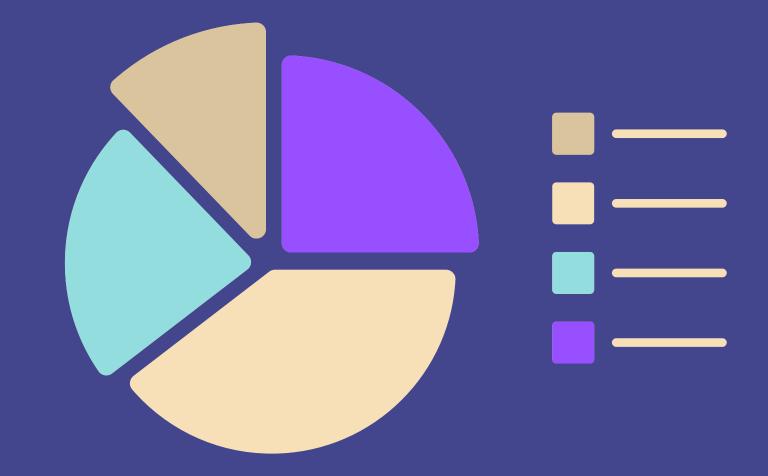
- Survived: Whether the passenger survived (1) or not (0).
- Pclass: Passenger's ticket class (1st, 2nd, 3rd).
- Sex_encoded: Gender of the passenger (0 for male, 1 for female).
- Age: Age of the passenger.
- SibSp: Number of siblings or spouses the passenger was traveling with.
- Parch: Number of parents or children the passenger was traveling with.
- Fare: The price of the passenger's ticket.
- **Embarked_encoded**: Port of embarkation (0 for Cherbourg, 1 for Queenstown, 2 for Southampton).



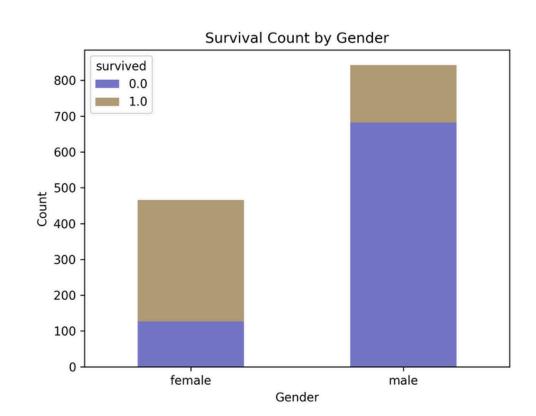


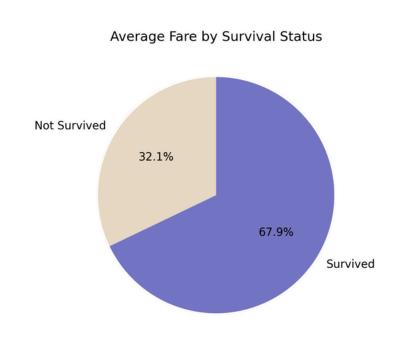
VISUALUSATION

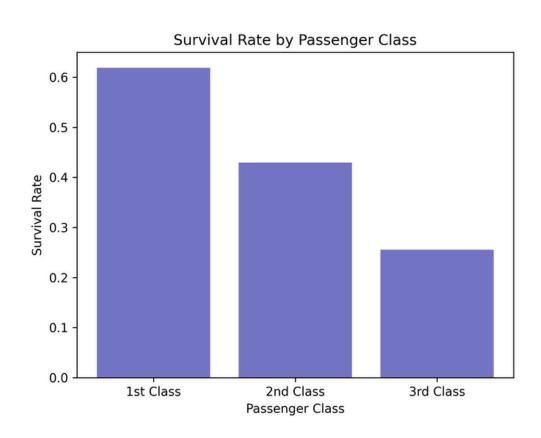
- DID GENDER AFFECT SURVIVAL RATES?
- WAS TICKET CLASS LINKED TO SURVIVAL?
- HOW DID AGE IMPACT THE CHANCES OF SURVIVAL?



NUMBER OF PASSENGERS	MEAN FARE	NUMBER OF FEMALES	NUMBER OF MALES	NUMBER OF SURVIVORS
1309	33.30\$	466.	843.	500.
NUMBER OF PASSENGERS 1ST CLASS	NUMBER OF PASSENGERS 2ND CLASS	NUMBER OF PASSENGERS 3ND CLASS	MEAN AGE 30 YEARS	NUMBER OF NOT SURVIVORS
323.	277.	709.		809.







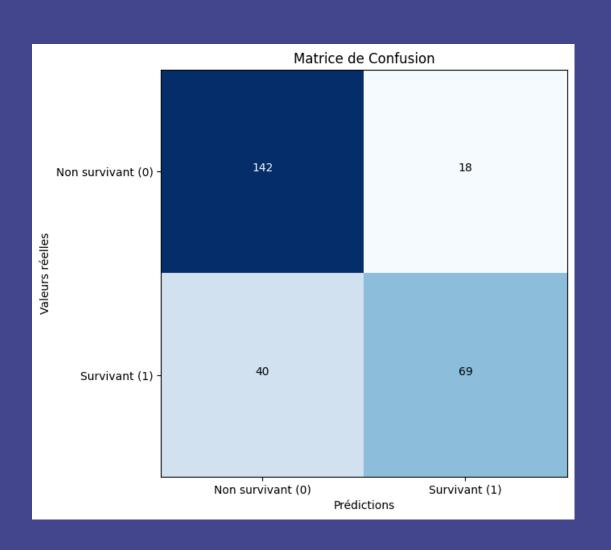
RANDOM FOREST

DECSION TREE
BOOTSTRAP
BAGGING
AND HOW THAT ALL WORK
TOGTHER TO MAKE RADOM FORSET



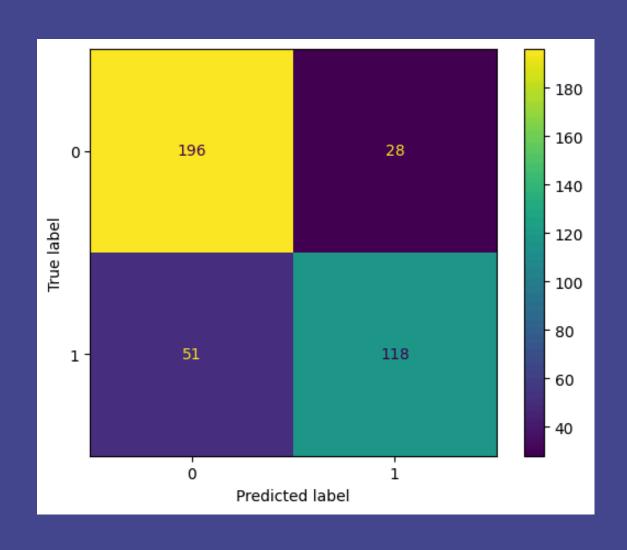
OUR MODELE VS SCIKIT-LEARN

ACCURACY
0.78
FI SCORE
0.75



0.7989
F1 SCORE
0.7492





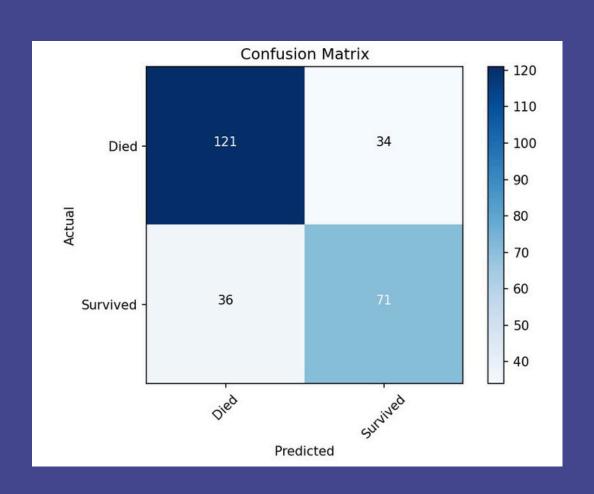
KNN ALGORITHM

KNN PRINCIPE
HOW THE ALGORITHMS WORK TO MAKE PREDICTION



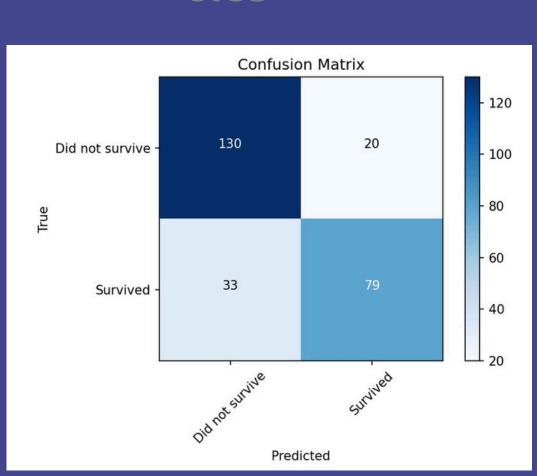
OUR MODELE KNN VS SCIKIT-LEARN.

ACCURACY
0.73
F1 SCORE
0.66



ACCURACY
0.79
FI SCORE
0.69

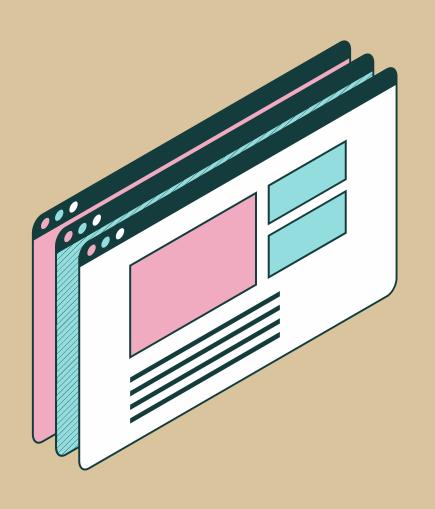
CCC



CONCULSION & COMPARSION

KNN VS RADOM FOREST
"WOULD I HAVE SURVIVED?"
YOUR CHANCES DEPENDED HEAVILY ON HOW MUCH YOU
PAID FOR YOUR TICKET AND YOUR AGE!





THANK YOU!!!