

FDS: Heart disease prediction

First presentation

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SAPIENZA
UNIVERSITÀ DI ROMA

Project for:
Fundamentals of Data Science
2021/22

Prof: Fabio Galasso



Task and motivation

Predict if a patient is at risk for heart disease based on their clinical data

It could be interesting to determinate wich factors influence more the probabily of a heart disease. It could be useful for the patient health to recognize the status of risk and and be able to prevent it it time.



Models, tools

Dataset be used:

<https://www.kaggle.com/fedesoriano/heart-failure-prediction>

We intend to implement a logistic regression algorithm, since the value for heart disease risk is binary (YES/NO)

We will apply patient anagraphic data, like age and sex, and data from the clinical tests, like blood pressure



Analysis

We intend to split the dataset and use one part for the training set and the second one for the evaluation

For patient safety it will be necessary to minimize the number of false negatives, maximizing the AUROC

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Thanks for your attention! 😊



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