

ML Framework P1

▼ Introducing our Framework

- Writing Practical Solutions
- Writing machine learning code to get insights
- ▼ 3 Steps in machine learning



- DataCollection
- Data Modelling
- Deployment

▼ What we are going to do

- Create a framework
- Match to DS and ML tools
- Learn by doing

▼ 6 Step Machine Learning Framework

▼ Six Steps

▼ Problem Definition

- What are we trying to solve?
- Is it supervised or unsupervised?



Supervised



Unsupervised

- Classification or Regression?



Classification



Regression

▼ Data

- What kind of data we have?
- Structured Data? Rows and columns/Excel

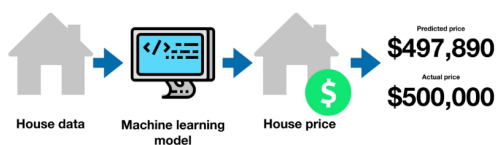


- Unstructured Data? Images/audio



▼ Evaluation

- What defines success for us?
- This ML for real estate project have to predict price 95%



▼ Features

- What do we already know about the data
- Predicting heart disease: Body weight

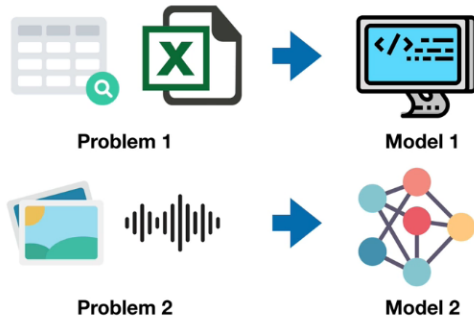


ID	Weight	Sex	Blood Pressure	Cholesterol	Heart disease?
4528	110kg	M	120/80	1	YES
5681	64kg	F	130/90	1	NO
7911	81kg	M	130/80	0	NO

Table 1.0: Patient records

▼ Modelling

- Based on our problem and data, what model should we use?



▼ Experimentation

- How could we improve/what can we try next?

