Dataset:

Now lets see at the data which is achieved from previous example

f_1 Length	f_2 width	Type
10	2	1
15	6	2
6	1.2	1
21	10	2
16	8.1	2
8	1.6	1

Dataset $(\mathcal{D})$

→ data point $\left(\begin{array}{l}\text{a point in a} \\ \text{data-set}\end{array}\right)$

How is this dataset created?

By Human experts (i.e., people who understand fish)

$$\text{Dataset} \longrightarrow \text{Build/Train a model(M)}$$
$$(\mathcal{D})$$

After building a model M

len = 12
wid = 6
───→ [M] ───→ Type 1 or Type 2

Query pt.
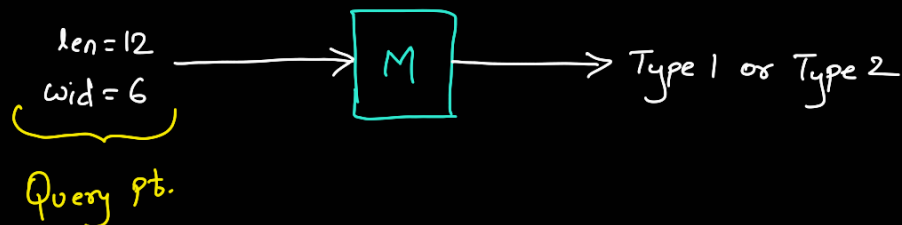
Now the easiest way to represent this points is by plotting