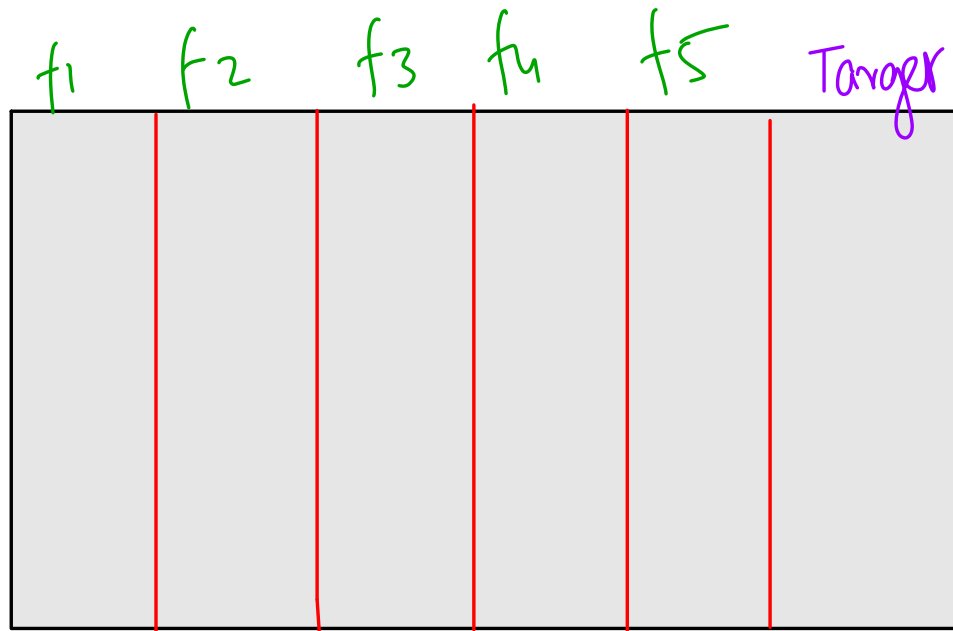


FEATURE

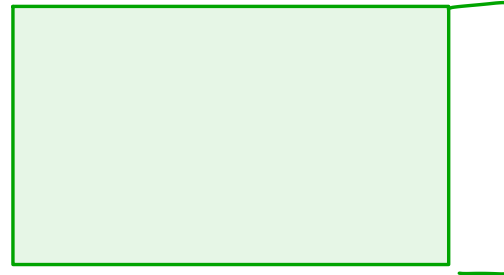
ENGINEERING-3

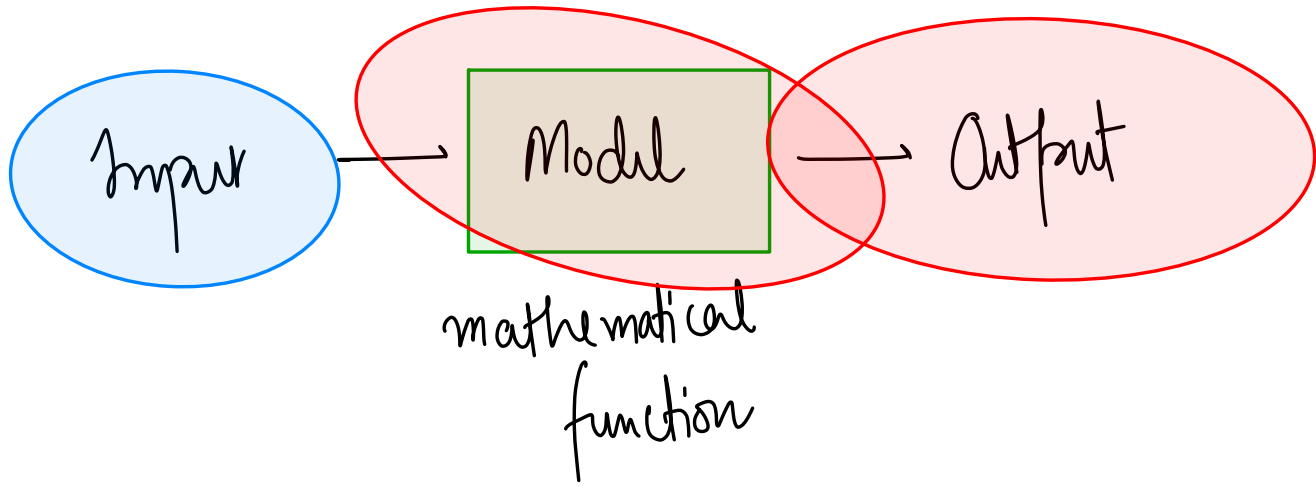
---



Applicant  
Income

Total  
house  
hold  
income





① OHE → One hot Encoding

	Cat	Dog	Elephant	Rat
Cat →	1	0	0	0
dog	0	1	0	0
elephant	0	0	1	0
Cat	1	0	0	0
dog	0	1	0	0
Rat	0	0	0	1

f1	f2	dup	f4	f5	T
1	1	0	1	1	1
1	1	1	1	1	1
1	1	2	1	1	1
1	1	3	1	1	1

f1	f2	0	1	2	f4	f5	T
1	1	1	0	0	1	1	1
1	1	0	1	0	1	1	1
1	1	0	0	1	1	1	1
1	1	1	0	0	1	1	1

## ② label Encoding

Nominal

ordinal

Cat



0

Dog



1

elephant



2

Cat



0

dog



1

Kat



3

ordinality → Order

Categorical

label Encoding works  
for features where  
no. of categories = 2

### ③ Target Encoding

HIT/FLOP  
1 0

Column

target

$P[\text{Target/Catym}]$

Drama	0
Rom	0
Thrill	1
Action	0
Rom	1
Action	1
Thriller	1
Rom	1

Drama	0	0
Rom	0	0.66
Rom	1	0.66
Rom	1	0.66
Thriller	1	1
Thriller	1	1
Action	0	0.5
Action	1	0.5