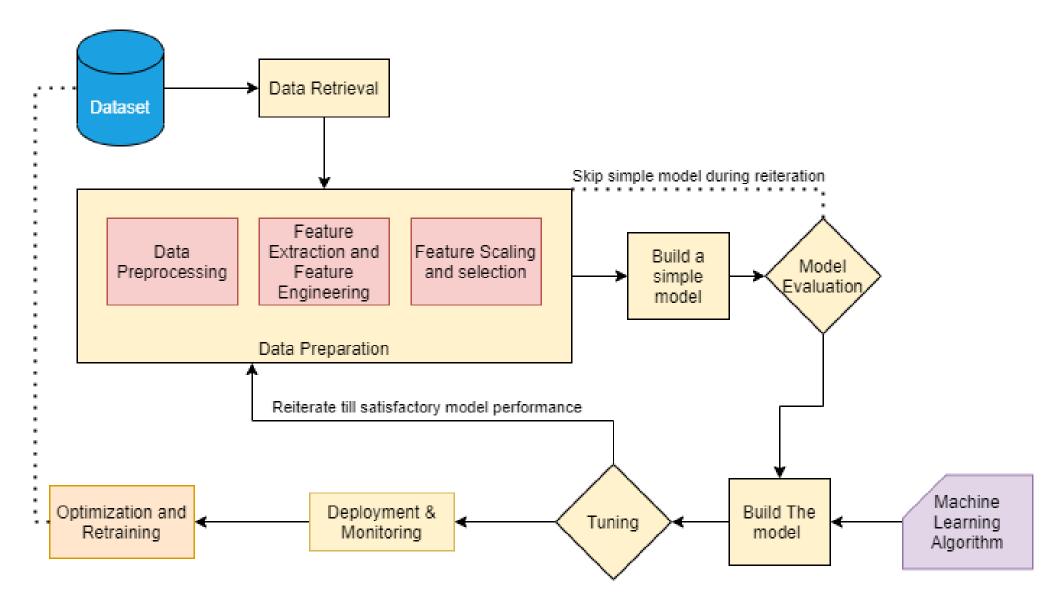
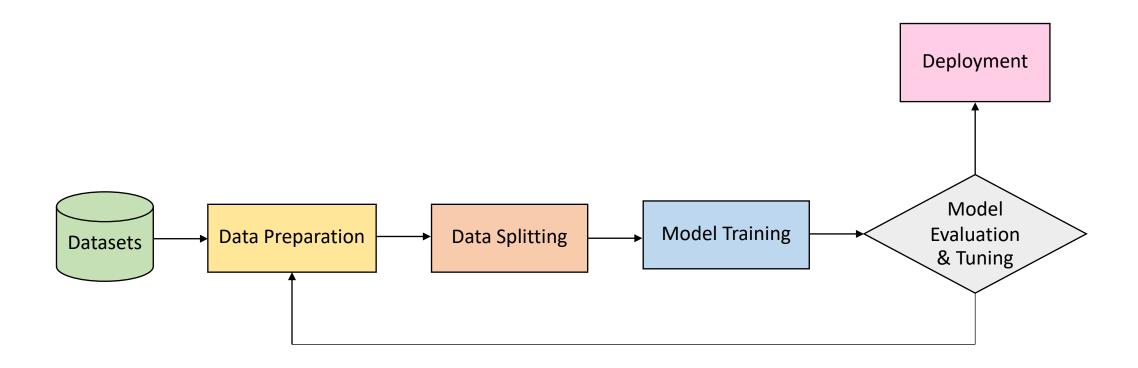
# **Machine Learning Workflow**

## **Machine Learning Workflow**

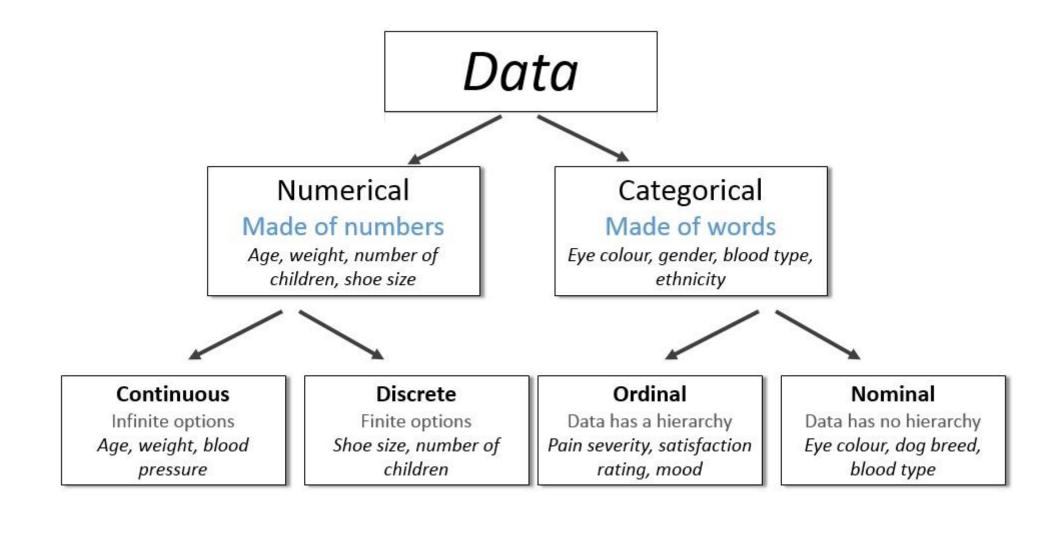


## **Basic Machine Learning Workflow**



# **Types of Data**

### **Types of Data**



# **Label Encoding**

## **Label Encoding**

This type of encoding is used when the variables in the data are Ordinal Data.

#### How do you feel today?

- 1 Very Unhappy
- 2 Unhappy
- 3 OK
- 4 Happy
- 5 Very Happy

#### How satisfied are you with our service?

- 1 Very Unsatisfied
- 2 Somewhat Unsatisfied
- 3 Neutral
- 4 Somewhat Satisfied
- 5 Very Satisfied















	Ear Shape	Face shape	Whiskers	Cat	
7	Pointy	Pointy Round		1	
7	Oval Not round		Present	1	
	Oval	Round	Absent	0	
3	Pointy Not round		Present	0 1	
}	Oval	Oval Round			
)	Pointy	Round	Absent	1	
3	Floppy	Not round	Absent	0	
3	Oval Round		Absent	1	
3	Floppy	Round	Absent	0	
7	Floppy	Round	Absent	0	

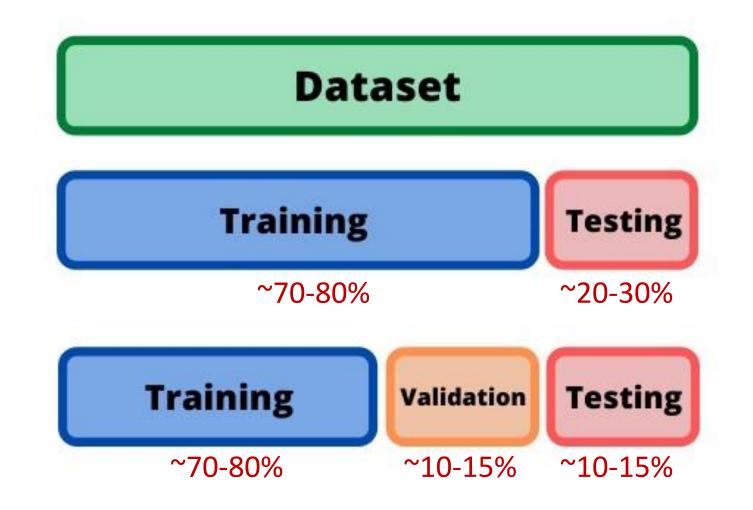
Ear Shape	Face shape	Whiskers	Cat	
Pointy	Round	Present	1	
Oval	Not round	Present	1	
Oval	Round	Absent	0	
Pointy	Not round	Present	0	
Oval	Oval Round		1	
Pointy	Round	Absent	1	
Floppy	Not round	Absent	0	
Oval	Oval Round		1	
Floppy	Floppy Round		0	
Floppy Round		Absent	0	

Ear Shape	Pointy ears	Floppy ears	Oval ears	Face shape	Whiskers	Cat
Pointy	1	0	0	Round	Present	1
Oval	0	0	1	Not round	Present	1
Oval	0	0	1	Round	Absent	0
Pointy	1	0	0	Not round	Present	0
Oval	0	0	1	Round	Present	1
Pointy	1	0	0	Round	Absent	1
Floppy	0	1	0	Not round	Absent	0
Oval	0	0	1	Round	Absent	1
Floppy	0	1	0	Round	Absent	0
Floppy	0	1	0	Round	Absent	0

Ear Shape	Pointy ears	Floppy ears	Oval ears	Face shape	Whiskers	Cat
Pointy	1	0	0	1	1	1
Oval	0	0	1	0	1	1
Oval	0	0	1	1	0	0
Pointy	1	0	0	0	1	0
Oval	0	0	1	1	1	1
Pointy	1	0	0	1	0	1
Floppy	0	1	0	0	0	0
Oval	0	0	1	1	0	1
Floppy	0	1	0	1	0	0
Floppy	0	1	0	1	0	0

# **Data Splitting**

## **Data Splitting**



# Thank you for your attention