					Class	sificatio
				Patte	rn Rec	ognitio
					Ass	ociatio
				Pred	ictive N	/lodelin
		Not o	bserved		Popula	ation
		Not o	bserved		Param	neter
			Observe	d	Sai	mple
			Observe	d	Sta	tistic
average of all numbers, affected by extreme values/outliers			<mark>Mean (</mark> μ	2) (×=	Σx/n)	
middle most observations when data arranged in ascending order, not effected by extreme						
values		Med	dian (n+1)	/2 th v	alue	\bigwedge
	most common value, highly resistant to outliers				Node	
						Meas

	IQR=Q3- Q1	IQR (Inter Quar
	√variance	e Standard
Relative r compare respect to deviation	measure to distributions with o their standard s	
	$CV = rac{\sigma}{\mu}$	Coefficient
	$\sigma^2 = rac{1}{N}\sum_{i=1}^N$	$(x_i-\mu)^2$
·	Range	= Xmax - Xmin



Statistics for Data Science



Computational			
d by org, fits the need up to date, reliable			
cted by other orgs or for r purposes		r	
numeric, can't be measure gender, religion		ured	
ninal & ordinal variable			
merical, can be measured J. # of members		ed	
	Discrete		only certain values
ypes	Continuou	S	can take any value

Visual representation of 5number summary

Mean > Median : +ve or right skewed distribution Mean = Median : 0 skewed or symmetric distribution Mean < Median: -ve or left skewed distribution

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