Cheatography

AP Stat03 Anticipating Patterns Cheat Sheet by Jianmin Feng (taotao) via cheatography.com/79308/cs/20683/

Probability		
probability	a measure of the likelihood of an event	
experiment	any process resulting an observation or outcome	
sample space	a set of all possible outcomes of an experiment	
tree diagram vs cross table vs venn diagram		
probability rules		
PA [0,1]		
sum(PA)=1		
odds in favor of an event: P(A):P(A')		
complement: PA = 1-PA'		
union: $P(A)+P(B)+P(AB)$		
intersect: P(A) <i>P</i> (<i>B</i> <i>A</i>)= <i>P</i> (<i>B</i>)P(A B)		
conditional event: P(A B)=P(AB)/P(B)		
independent: P(AB)=P(A)*P(B), P(A)=P- (A B), P(B)=P(B A)		
disjoin/exclusive: interrsect is 0		
example:shop autoinsurance involved in ac	oper items vs gender e: collision protection vs ccident	
	By Jianmin Feng (taotao)	

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random variables and their prob distri- bution	
variable	a quantity whose value varies from subject to subject
probability experi- ement	an experiment with possible outcomes maybe known, but exact outcome is a random event, no certainty could be predict in advance
random variable	outcome of a probability experiment is numeric
discrete random variable	quantitative variable that takes a countable number of values
	could you have half unit of your variable? No
continuous random variable	quantitative variable that can take all the possible values in a given range

could you have half unit of your variable? Yes

discrete random variable distribution

Probability variables	distribution of discrete random
table{ X,p(xi) }	P(xi) [0,1] sum(P(xi)=1
Mean/e- xpected value	E(X)=sum(xi*P(xi))
variance	sum((xi-mean) ² *P(xi))
standard deviation	expected values for how much any given data point will vary from the mean

test

Not published yet. Last updated 17th December, 2019. Page 1 of 1. Sponsored by **Readable.com** Measure your website readability! https://readable.com