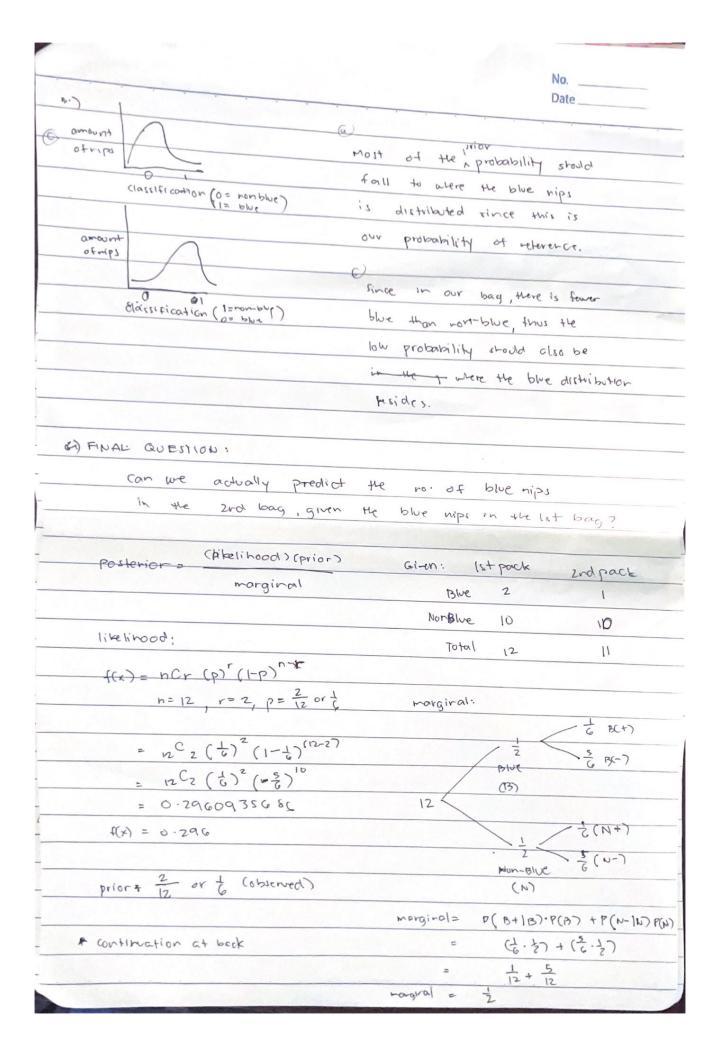
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BELEK, DOMING EMIL R. CAS-601A	Date
MILITANTE, DARIEL M. BAYESIAN STATISTICS	
THE PARTY OF THE P	
17 Upon opening the hips bag, a categorical data con	be identified
@ since the context is whether as it is blue or not. The	
quantified by assigning exactly two numerical value	(1
each of the categorical data (buter not blue).	THE STATE OF THE S
(a) and a contract of blue is to	
Gre may to estimate the percentage of blue is to	determine
its number given that all colors & which is s in tot	al, have even
equal chances to be in a nips bag. However, the	pit fall is
that the distribution of colors it might be rounded	om in the
factory. This is on top of the error in which t	
prips in a bag is not exactly the same all the	
prints in a bag	
@ Given that there is no blue nips in a bag, assum	and the second s
entire population also has sero blue nips is	
realistic at all since again, the distribution m	right be roudow.
	. 100
@ By adually counting the number of blue and nor	i-blue nipi
in a bag; non-blue meaning all other colors brexce	et blue.
(Likelihood) (Prior)	
Posterior = moraphai	cally:
- 6	
P(BIA) P(A). A= getting a blue	
P(A B) = P(B) / B= getting a re	on-blue nils
- (7) 2)	
the likelihood can therefore be calculated via	Birdmial distribution
(a) formula given as: f(x) = nCn(p)(1-p)	@ Yes, we can eat it already
b w/o replacement since	if the date
Bayes role talks about no total no of rips In a	bag 13 recorded.
irdependence, given we r= no. of blue rips in	a bag
didn't return any mips p= probability of getting blue	
f(x) = likelihood of getting ron	-blue given you've aheady

O T.	No
(a) 14	prior information can be approximated by getting we
P	abability of approximated by
	or blue nips observed
	opening a random bag of mip
(P.)	We assume that each solve it
	we assume that each color of nips are made separately
	Only after the the nips are packed in a small pag.
0	Yes. The manufacturing to the
	blue rips in a base as
	and gith that the
	that the total mine is in the not the cron
	that the total nips in a bag is not also fixed)
.	Yes. The nice of thought
	Yes. The nips as should be well-mixed befor packaging in
	a bag since the proportions of blue nips is not evenly
	distributed in all the bags, reaning the packaging should be random.
~	
8	realistically, we can rever identify the population of blue
100000	nips in a factory. However, we have a theory that
	all colors are made equal in number, but before
	packaging in a bag, it will be put in a larger container
	first and mixed well.
	the loop of
	MPT -
	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	nips [0000] Nip bags WI
	larger container travdom no of each salar in each sag.
	with all the each after in each any.
100 30	



	No
Wellmood (Control of Control	Date
P(AIB) = (posterior) (prior)	2NO PACE:
morginal	observed: I blue 10 non-ble
= (0-296) (1/6)	
1/2	P(Blue) = 11
= 0.098667	= 0.091
= 0.009	E @: 9.1° (0
P(AIB) = a.9°10	224116
Although the posterior pro	bability(a4) has close to the probability
of getting blue in 2n	d packs, this would not hold true to
other packs with more	the him would not hold true to
at all. Again this:	blue hips or without any blue mps
the proportion of while it	because we have an accomption that
The District In	a pack is randomly distributed
factory	of the manufacturing in the
factory.	
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	Annual Control of the
	The second secon
	The second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section of the second section is a second section of the section of the second section of the se

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Whelipand	No Date
P(AIR) = (posterior) (prior)	2NO PACE:
morginal	
= (0-200) (1/2)	observed: I blue, 10 monthle
12	P(Blue) = 11
= 0.098007	> 0.091
= 0.0ad	
P(AIB) = a.9°10	≠ Ø: 9.1° lo
Although the posterior prote	ability(94) has close to the probability
of getting blue in and	packs; mis would not hold true to
other parks with	· pucks, this would not hold true to
at all Acris Wise	she hips or without any blue hips
the proposition of the proposition of	because we have an accomption that
1 10 NOW OF BILL IN	a pack is randomly distributed
Foodbase of the nature	of the manufacturing in the
- factory.	
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