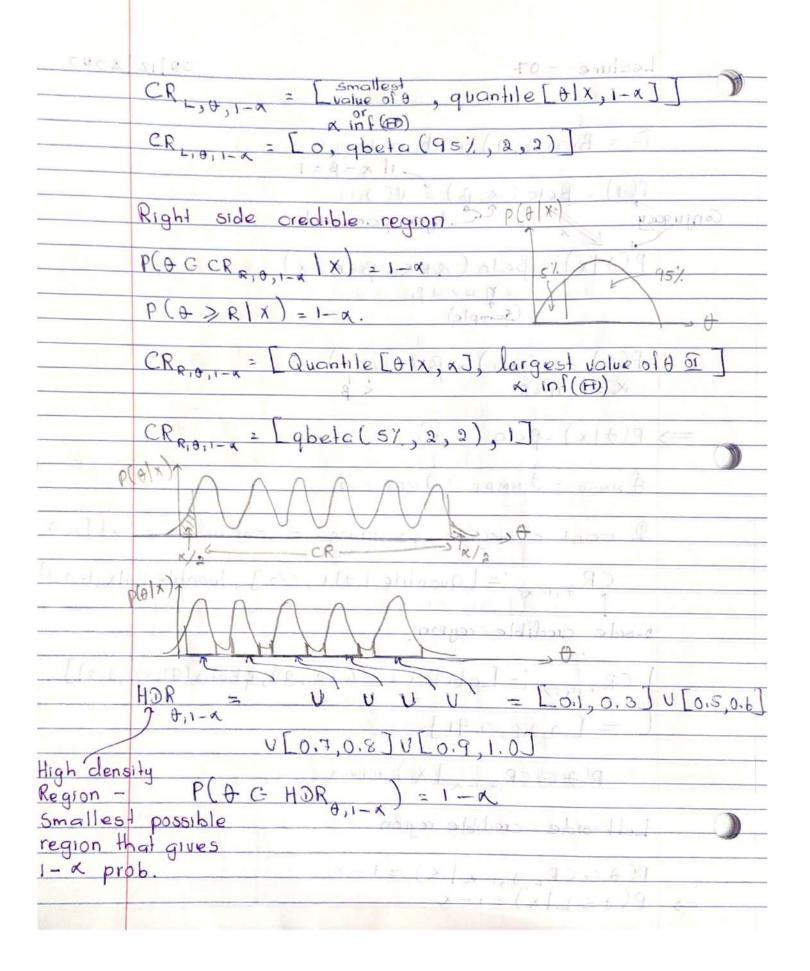
| - 20 | The second second | | |
|------|--|--|------|
| | | 90 | |
| 3 | | | |
| 3 | | | |
| 3 | | Lecture - 07 02/18/2020 |) |
| -3 | | 1x 1xx t bold hour bloomy 1 - 2 - 1 | |
| -3 | | A State of the sta | |
| -3 | | T = Bin(n, +) with n known | |
| -3 | | $11 \times = \beta = 1$ | |
| -> | | P(+) = Beto (x, B) = U(0,1) | |
| ~> | Conjug | acy hyperparameter sole Hais | |
| - | | | |
| | | P(t) = Beta (x+x, B+n+x) | |
| | | $n = x + \beta$ | |
| | | (50mple) x-1=(x/2x+2)9 | |
| | 1 8 1 | P(A) = U(O)) = Boto (I)) P(HX) | |
| - | | - CO11) - DETO- C11/ | |
| - | | X=1, n=2 × B | |
| - | =\ | P(+1x)=Beta (2,2) | |
| - | 0 | TOTAT-BERG Cara | 13.0 |
| - | | D MMSE = D MMAE = D MAP = 16. 2.5 | |
| - | | O MAISE O MAINE O MAINE OF MAINE | |
| - | | I want a region providing a confidence set for | 4 |
| -3 | | | |
| - | | CRo, := [Quantile [Olx, M/o], Quantile [Olx, 1-1 | 41 |
| - | | | |
| | | 2-side credible region | |
| 3 | | the same of the sa | |
| | 1 | CRo,95%: - Labeta (2.5%, 2, 2), abeta (97.5%, 2,2) |) |
| | 200 01 | PEC. DC J = 1 V U V V = 9CH | 1 |
| -3 | | L = [0.09, 0.91] | |
| - | | DIAC CO IV | |
| | | P(OG CRO, 1-x X) = 1-a. P(OX) phienabid | |
| - | | Left-side credible region sldiecogastostland | |
| - | - | | |
| - | | $P(\theta \in CR_{\perp \theta, 1-\alpha} X) = 1-\alpha$ | -1 |
| | => | $P(\psi \leq L \mid X) = 1 - \alpha$ | |
| - | 7 | | |
| - F | No. of the last of | | |



| - C | |
|---------------|---|
| 3 | |
| 3 | |
| 3 | Disadvantage of HDR. |
| - M/I | significant of the following of location |
| 1 | Computationally intense. |
| | 9 |
| P | Non-configuous is strange |
| | |
| - | 3rd goal of inferance: - theory testing |
| | 3rd goal of inference :- theory testing |
| | heat habe - that it at the think of the second teach |
| | You wish to convince someone of something |
| | (Ha), but noonly currently believe a business-as- |
| | (Ha), but people currently believe a business-as- |
| | 10.00 (10) |
| | Hai UFO's exist and alians have visited earth, |
| | Ho: UFO's deals exist and alians have not visited couth |
| - | elt (99.50) |
| | Two ways of "proving" Ha! |
| - | Two ways of "proving" Ha! |
| | 1 Assume Ha is true and demand evidence to |
| | the contrary. If you cannot provable evidence, |
| | Ha stands |
| | mond of the last of the sale of the |
| | I Even though i believe Ha, I am so confident that it's true that I am willing to suppose the opposite (Ho) and adduce evidence until everyone sees Ho is wrong and they'll be found to conclude Ha. |
| | that it's true that Dam willing to suppose the |
| | opposite (Ho) and adduce evidence until |
| Spatistical H | everyone sees that's wrong and they'll be found |
| 3 | to conclude Ha. |
| 2 | Markar Cost Dispetal |
| 3 81 018 | Un strategy I, everyone has a legend of. |
| 2 0 | skeptiersm with evidence, we call that a. Di |
| | the evidence doesn't meet or beat this level. |
| | In strategy I, everyone has a legend of. skeptieism with evidence, we call that A. If the evidence doesn't meet or beat this level, we retail to. In science at large, we're agreed you R communal K-level |
| | agreed you R communal - K-level" |
| | 7 |
| | |
| | |

| | In inference, we wish to lest theories |
|-----------|--|
| | In inference, we wish to lest theories mabout A; we would like to demonstrate the |
| | lollowing less the property of the second stages of |
| (A) | Ha: 0 + 0. => Ho: 0 = 0. (loo - sided lest) |
| - W | TIG. V + 00 - 110 CIWO SIGED TEST |
| (B) | Ha: 0 < 00 => Ho: 0>0. (left-sided lest) |
| ~ | Ha: 0 >00 => Ho; 0 & Oo (right-sided test) |
| (C) | Ha: t > 00 => Ho; t & to (right-sided test) |
| richt bee | La salama Maria al desa vol |
| | Bayesian Hypothesis lesting |
| | |
| -, di | CCU LX CONTRACTOR OF THE CONTR |
| uxa bab | P(Holx) (x =) reject to |
| | ph 'primary to be with |
| | P(Holx) > => retain Ho |
| | A A Company of the contract of |
| - 0 | x = s% in the scientific standard. |
| | Ho: \$<0.5 F; Bin (n, t), n known |
| trobe | Ha: θ > 0.5 P all n=100, X=bl. |
| Page | 000 1 x) - [0.5] |
| | $P(\theta \leq 0.5 \mid X) = \frac{1}{100} \frac{\theta}{100} \frac{(1-\theta)}{100} \frac{d\theta}{100}.$ |
| (a) = (| (0,1) (0,1) (coin is unfairly weighted) (0,1) |
| > Belo | (62,40) = pbeta (0.5,62,40) |
| 1 | = 0.014 \ 0.5 % Reject Ho. The coin is |
| 9 | Allahan for intervals of hote distribution |
| 1 9 91 | Notation for integrals of beta distribution $P(X \le x) = F(x) = pbeta(x, x, \beta)$ |
| | P(X)x) = 1 - F(x) = 1 - pbeta(X, x, B) |

| 2 | |
|-------------------|---|
| 2 2 CO | in 100 50 - 24 to. |
| 2 | A: prop. of non-5-star rides If A>25% |
| -3 | =) lire the driver; Bob does 200 rides and |
| -2 | gets 37-non-s-star ratings. |
| | |
| 8/4 | Do we fire Bob? (10) Ho: θ ≤ 25/ |
| | (1,0) V-H6190 < 25% |
| | Ha: 0 > 25) |
| | $P(\theta) = U(0,1)$ |
| | $P(\theta) = U(0,1)$ $F: Bin(n, \theta), n known \Rightarrow P(\theta \mid x) = \beta e^{\frac{1}{2}} G(38, 164)$ |
| | n=200, X=37 |
| 9/19/00 | |
| | Pual = P(A & 25// X) = (0.25 1 + 34 (1-4)163 do. |
| | Jo B(38,164) |
| | LIES PRODUCE LICENSE AND CONTRACTOR |
| | = pbeta (0.25, 38, 164) |
| | |
| | = 0.98 => Retain Ho |
| | 20.98 => Retain Ho (Don't fire Bob) |
| | Fig. (11, and) = |
| | Ho: 0 = 10 0 0 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| | Ho: 0 + 0. Rual = P(0 = 0.1 x) = 0. |
| | we have a problem with |
| | 9-sided tests |
| | |
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| | and a selection of the |
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| -3 | TUT J. C CR. TES MICHOLD IN SER Newest |
| 2 | Voienside : 03 Palie |
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| | photographic |
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| | recity the balance |