Lecone 5 2/17/15

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grow the same critice P(OT super guiloz), (my fruits chor purple) ephotonic defener from livit, or proposity. It tosses the question; How carrier me gon? P(Formy is tre) -> when dagree of correlation do no hime? In episeme African, you nothis use the term "random" became if you know all information, you would be certain.

Prob = prop.

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(no radomers) (LAPLACE) Coin Blip Wasing will 1920's with war passele devoling Eistein hond shir! (1926 gnote) doors" place to love, $ce \in S2$.

2015: Mandonins brills the the graperse (on 9 smill scale)

but sull offers can snowball in by offers

Laplace writes:

We ought then to regard the present state of the universe as the effect of its anterior state and as the cause of the one which is to follow. Given for one instant an intelligence which could comprehend all the forces by which nature is animated and the respective situation of the beings who compose it — an intelligence sufficiently vast to submit these data to analysis — it would embrace in the same formula the movements of the greatest bodies of the universe and those of the lightest atom; for it, nothing would be uncertain and the future, as the past would be present to its eyes.

(1814:4)

The vast intelligence here described has come to be known as Laplace's demon. The idea is obviously founded on that of a human scientist (perhaps Laplace himself) using Newtonian mechanics to calculate the future paths of planets and cornets. Extrapolating from this success, it was natural to suppose that a sufficiently vast intelligence could calculate the entire future course of the universe. Laplace himself relates his vast intelligence to human successes in astronomy. As he says:

The human mind offers, in the perfection which it has been able to give to astronomy, a feeble idea of this intelligence. Its discoveries in mechanics and geometry, added to that of universal gravity, have enabled it to comprehend in the same analytical expressions the past and future states of the system of the world.

(Laplace 1814; 4)

The regularity which astronomy shows us in the movements of the comets doubtless exists also in all phenomena.

The curve described by a simple molecule of air or vapor is regulated in a manner just as certain as the planetary orbits; ...

(Laplace 1814: 6)

Regardessof the definent who prob really is, molemations have their one defi R is a set function on all set die Si wrongs. In may the single okay for this clay (9) P(di) 20 (6) P(SV) =1 (1) of AAR, Az Lingur => PA(UAZURZU...) = EP(di)

(9) P(di) 20 (6) P(SV) =1 (1) of AAR, Az Lingur => PA(UAZURZU...) = EP(di) Goodens ((9 di) = 3 Mie) for conside see Thm 1 P(A)= 1-P(a') Corphun Role" $P(C)=1 \Rightarrow P(AUA^{C})=1 \Rightarrow P(A) \cdot P(AC)=1 \Rightarrow P(A) \cdot P(A)=1 \Rightarrow P(A) \cdot P(A)=1 \Rightarrow P(A) \cdot P(A)=1 \Rightarrow P(A) \cdot P(A)=1 \Rightarrow P$ The P(A)=0 → A=Ø There P(b) = 0 Jugar no Ato has Pa)=0 P(P)=1-P(P)=1-P(PL)=1-1=0 RAUA"):|| " 160)-160) =1 (Thm) SCAAy (6) 0+160=1 = 160=1 => A'= \(\Omega \in A(A) = R'= \delta That I ACB => Per < RE) of superus) If $A \subset D \Rightarrow J \subset = B / A^{\frac{1}{2}} L C \cap A = B \cap L A \cup C = B$ => P(AUC) = P(B) => P(A)+P(B) = P(B) => P(B)-P(B) = P(C) => P(B)-P(B)>0 This P(QUB): P(4)+ (6) - P(ANB) P(AUB =(ALB U ANB UBLA) A= Albuans = ((a/b) + P((n)) + P(b/a) => P(0)= P(0/6) + P(0/06) B = BA VAAB P(G) = P(GIA) + P(EAG) = ((010) + ((010) + ((010) - (000)) Laud Indian-Exchangen $\begin{pmatrix} \begin{pmatrix} b \\ c \end{pmatrix} \end{pmatrix} = \underbrace{\hat{S}}_{i=1}^{2} (A_{i}) - \underbrace{\hat{S}}_{i} (A_{i} \cap A_{i}) + \underbrace{\hat{S}}_{i} (A_{i} \cap A_{i} \cap A_{i}) - + - + \underbrace{\hat{S}}_{i} (A_{i}) + \underbrace{\hat{S}}_{i} (A_{i} \cap A_{i}) + \underbrace{\hat{S}}_{i} ($

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