DELTA Pg No. Mathematics for Marine way Matus he Machine describing It's not always about solving tree problem modulentienters grapher understanding when to apply mater to try given data on problem. State Me overien. 3001-Multivariate Paralo 300/ Calculus. (1590)

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	= 43 (An +2n)
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<u>b</u> )	Chain Dule: -
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(0)	Peroduct Pule:-
9	
	f'(n1. n2) = w-n2 + n2. n1
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	Donwaters.
	y (my,2) = (4,2). f'on)
	(r(12).fl(y)
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	(My) · f(z)

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0	John Parobability Measure of event happening at the same time.
3	Conditional Parabability:
	Occur of some other event has aloundy occurred.
#	Bayels Theorem:-
	It is used to calculate the conditional  perobability It is the perobability of an  event occurry based our perion baroulledge  of conditions that might be related to try  event.
	founda! - Brown of has toppened
	P(A) = P(B) P(A) - Perobationing  Probability  of A when B  has reppend Probability of B.
	Applications of Paroberlikity has Machine Learning;
	· Perobability welps us opting our modul. · Clossification by our algositude evegue Peabedrility · Loss can also be calculated us my freebolivity · Models are built on Few bability.

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	four Meline Lecourt Lections:
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	fuelian !-
	(i) Probability Dourity furtion:
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	(ii) Nonmal Distrubution:
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	It states that sampling distributions of the means of any judependent, hands
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	1) Marighal Probability!
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as a jest of unbess took
geprenet southing Ventous Operation. Evoro vaich type of ML dataset we are working with I then apply vector opentian O Addition. VITUE = Despecuel. Scalar Multiplication Ventou gerous with the scalar value multiplied & for -ve vice very.

B (AI/Nr) 1000 Very weeful In Deep learning > Suppose | puow much about Ne furtue persjertey your who badp my burow try unknown features of Exemples item of unbern, symbols on Cupricipals in a nestangular average. the ventur forme to coveray. fue ventus forme to soway. " We generally do tax to rule our operations
Corren P helpfur. Some Besic openedian of Materius such as Addition of Substantian of Multiplication us already died 14 + 2. lets dive but wounded pup. w. e.t. M.L. Matrin Operations! Transpoke: - ii Juteulianjing of none of colomus

generally use it to charge the duncationality of the Green data (probler. Eq. Matrin. It is the saday Value of Matring It gluen you try product of Figur Values of the Matrice. Det (A) = a+ | e | - b | df Breks LA. ventou as a Matrin NOTE . ventous can be easily translate to Matajar. De alouady talked It is easy apply aparolian on meeting ML Pov! -Know openations such as Seating Rotation & Succeedy

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Scallry!
$\begin{bmatrix} n' \\ y' \end{bmatrix} = \begin{bmatrix} n \\ y \end{bmatrix} \begin{bmatrix} sn & 6 \\ 0 & sy \end{bmatrix}.$
Sucaring:
y' y m1
Potation:
[ n'] = [ n ] [ coe d - sund ].
Matrices can also help us solver ter equations by
-> Furme Metro
-> Row Edudan Vetural.
# Eigen Verleus (ML Pav)
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There are generally used for analysis of trot

My V2 vertien hus computerly change best my V1 Vector is been applied work -vy-Scalar. After Sugaring we am still about to entent the information that it is surrough. Applications of Linear Algebrush in Metter Allen · PCA four almercianality reduction.

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with Images. Encoding of the Datasel. Optiming attour for De models.