3 Main Important things

23+ hvs) -> Mams

- 1) hinear Algebra
- 3 Statistics -> Basics to Advanced => Applications of all there Topies
 In Date Science.
- 3 Differential Calculus.
- Déincar Algebra : Scalere, Vectors, Vectors Operation, Matrice, Matrix Operation

 functions, Linear Transformations, Inverse function, Eigen Values and Eigen

 Vectors

Newal NIW: Forward propogation - Matrices operations

Applications In Data Science

2) Statistics -> ML, Deep Rearning -> Models => Muge Dataset

L> Tools to hearn from these Data

Ducriptive

Infumtial.

- 1 Measure of Contral
- Tendoney

 (E) Measure of Dispersion
- 3) Histograms, Box plot
- 4) Typus of distribution of DATA.
- (PDF, PMF, Normal Dish, LogNor

- 1) Hypotheris Testing & P Value
- Q Ltut, t-tof
- (3) (HI Square TUF Multiple
- 9 ANNOVA TUST

3 Diffuential Calvilles
① Durivation, Slope =) Visual Diagrame =) During Equations ←
2) Tangent lines
(2) august lines (3) polynomial Expressions [Derivative of this Expression] (4) Trick analysis IT.
(9) Trighometric Expression
(6) Chain Rule of Denvative } Optimizations =) Chain Rule.
6 Composite Function) ===
Applications of Linear Algebra, Stars Differential In Date Science
1) Simple Linear Regression, Multiple Linear Regression + Application
2) Dimensionality Reduction [Principal Component Analysis] -> kigen Value ?
3) Neural NIW IS TRAINED -> ANN -> Multi Legend } NN.
$\overline{\mathbb{A}}$

Artificial NN