Probability Distribution

Success Failure 1)15<.8ete - Bernoulli Binomial - Poisson

Any value is valid) Continuous - Normal Gaussian - Duforn - Exponential - loggithmic 2 Pareto (Bo; 20)

$$P(H) = 0.6 \rightarrow P(x=0)$$

$$P(Not H) = 1 - 0.6 \rightarrow P(x=1)$$

= 0.4

3) Normal/Gaussian: Mean = Median = Mode (Bell Curve)

(Symmetric Curve: (1)

Continuous deute can be understood & Mean (M), Std (5)

60%: Mt 10 : Boyndary (LB, VB)

95%. M±20

78% 6 M735

M = 23, J = 4.2 $LB = 23 - 2 \times 4.2$ $UB = 23 + 2 \times 4.2$ × < -98%

(Robalility (ess) (A) Pareto (00 : 20) 1) 20% data com explain 80% of distribution. Es if you to members in a family then only 2 members are decision maker. Probability Distribution Function (scipy-stats) (1) pmf() -> Probability Mass Fynction -> Discrete (=) (2) par () -> 11 Density 11 -> Continions (=) (3) cdf () -) (amulative Density Function -) Docerete/Continuous

A from Scipy stats import Bernoulli, Binom, Norm Besnoulli-pmf () Binom. pmp () Norm. pdf () Population (100% data) # (Interpendial Starts Sample (30% of desta) Help to conclude/infex about entire population/Data Concluding sedi Ang 2950 on a sample/date. Infering

- Multiple Sample -> Range -> Assumption (Mypothesis) Sampling
Technique $\left(\mathcal{I} \right)$ $\left(L \right)$ Mypothosis Testing (77PCS Accept Reject