Differences Between Normal and Binomial Distribution The main difference is that normal distribution is continuous whereas binomial is discrete, and if there are enough data points it will be quite similar. so normal distribution with contain los mad Scale. 4. ( out = 2012 (2 mot) mossing misting ) doly 1206 . 802 from unable imbast saugar import masplotlib pyplot as plt. import seaborn as sns sns. didplot (romdom. normal (loc = 50, scale = 5, size 200) hist = false, label = (normal) sns. distplot (romdom binomial (n=100, p=0.5, size=1000)

nist = false, clabel = biromial) plt. show() - normal
- binomial 20.05-Normal distribution is comingly's whereast parson - 80.0 12 Sus use can seem hat simples to bipanies to by 50.0 Poisson Distribution in the sound of the sou Poisson Distribution is a Discrete Distribution. It estimates how many times are event con propper in a specified time. e.g. It someone eats twice a day what is probability he will eat throice?

It has two parameters.

Jam - rate or known no of occurrences e.g. 2 for size - The shape of the overturned arragy. from numpy import roundonn x = regardom, poisson (lam = 2, size=10) [223400 UOII]

Vigualization of poss-poisson Distribution from numpy import standom impost masplotlib-pypiot as plt impost Seaboon as 303 Sng. dist plot (Handom. poisson (Jam=2, Size=1000), Kde Plt . Show () supplied today Kalur Dario telyps dillogene sal) Domoon, sieal mos) falq Difference between Normal and poisson Distribution Normal distribution es continuous whereas poisson es dischete. But we can see that similar to binomial for a large enough Poisson distribution et will be come to normal distribution from numpy import standom import matplotlib-Pyplot as Pet import scaboon as sign with proper work established Sns-distplot (sandom-noomal (loc = 50, Scale = 7, Size = 1000), His hist = false, label = normal'] Sns- dist plot (sandom-poisson (lam= 50, size = 1000), hist = False, 100 to Barrentore of 40 sque normal 5/01/00/1/00 80

Difference between poisson and Binomial Distribution In binomial, the probability of appearing in every totaly
some but poission is difference. The difference is very subtle it is that binomial distribution is for discrete trials where poisson distribution is to continuous But for very large in and near-zero P distribution is near esentical to poisson distribution such that n'p is nearly equal to lar g: from enumpy import sandom impost matplotlib-pyplot as pet +609ENemport Seaborn as sng 2003 Sns. Listor destplot (sandom. binomial (n=1000, P=0.01, Size=100 hist = false, latel = binomial') Sns - distplot ( suandom - poisson (lam = 100, Size = 1000), hist = False, label = poisson) Pet. Show () binomial -poison 6.08 0.06 0.04 Uniform Distribution 0.00 Used to de scribe probability where every event equal chances It has thopped the hope of sandom numbers. It has those parameters: h-lenger bound - default 0.0 200 100009 99611 200 neward networks ele. b=uppen bound - default 10 months Size = The Shape of the returned array. e.g. Cueale a 2x3 conitor m distoibution sample: x = 9/andom-oniform (size = (2,3)

