Used on count data	
Used on count data - Discrete	
- Non-negative	
Issues.	
	bo +b1 x1 + b2x2
2. Non-linear/no negatives => must	we exponential = y=e
	ra, venonce is higher with higher countly) varience when expected can increases
of evening the state of the east	vonte with copering court into the
- Normal distribution also allows ne	gathe numbers in error
U	
distribution changes occording to	expected court + skewed to not include at
Assumptions & y-orais	V distibution becomes
Assumptions & Y-orais 1. Varience = mean	out mountage products
	poisson, not nomal
43 e 20+4 x + 22 x 2	
•	
lnly)= bo+ b1 x1 + b2 x2 + bn7h	
· · · · · · · · · · · · · · · · · ·	
one varioble: b, co	
Mly) = bo +b,x,	
y= e 30 + 31 x) 370	
•	•
e bo a when x=0	
ob) at the act of the	
ebi => > b charge per X => maidence	role rolo
E-14 - 0. A.	
Fitting Model	
using moremen likelihood estra	notion
	•
ex. X= # of Jextbooks, 50 students ($(x_1,,x_{so})$
•	
5 x; = 150	
We want the mean # of books a pe	
we want the ment not books a pe	rson bys

Xi ~ Poisson Pishibutonly)

by of poduets sum Likelihood; constant with hoglab) =hoga +hogb x, _x;0) = T f(x;1y) Lapped bog both sides: bg(L(y| x, ... x, υ)) = ξ bg(e-y, x) = y= \(\frac{1}{2} \) \(\frac{