Constance Gee

DSO101 Lesson 8 Makeup Exam

1. Name one example that is listed in the lesson of using Poisson Distribution.

The number of bugs of a particular type in a square foot patch of field.

1. What type of response (outcome) does an exponential distribution have?

A fast food restaurant receives 17.8 cars/ customers, every 2 hour period during a set time frame, 2AM-4AM.

1. What does it mean when a product suffers from high infant mortality rate?

The product has a lot of failures immediately after manufacturing.

1. When would you use a Chi-Square distribution?

When you want to determine weather there is a significant association between two categorical variables. For instance the last and prior ENTITY Data Science Class and the current class I am in, based on information prior, Entity has actually data to determine on average which students will successful set an example for success by completing the course and landing a great job. Based on the data they have, they may be able to determine by a certain week, students that may need abit more or less assistance to accomplish successful completing and passing.

Also a store owner can use chi distribution and often do. Black Friday, White Sales, Easter Blow outs, After Holiday Sales, these things are all determined when and if they should occur based on data of traffic, from store sales, staff they need working, and so many other details.