Assignment 4 Machine Learning

Given data of Singapore Airbnb which can be downloaded in this link:

<https://www.kaggle.com/jojoker/singapore-airbnb>

1. You have identified the discrete and continuous random variables in the previous section. Now, you can also identify the distribution for both discrete and continuous variables.
2. Try in Google Collaboratory:

* Plot the data on a histogram
* Find a well known distribution
* Generate and plot the pdf on top of your histogram

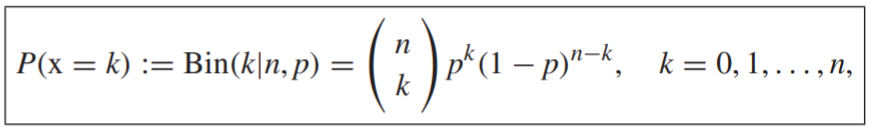
Jawaban:

1. Distribution for Discrete and Continuous Random Variables:
2. Distribution for Discrete Random Variables
3. Bernoulli Distribution

A picture containing clock

Description automatically generated

1. Binomial Distribution



Where,

A close up of a clock

Description automatically generated

1. Multinomial Distribution

A screenshot of a cell phone

Description automatically generated

Where,

A close up of a device

Description automatically generated

1. Distribution for Continuous Random Variables
2. Uniform Distribution

A close up of a clock

Description automatically generated

PDF:

A screenshot of a cell phone

Description automatically generated

1. Gaussian Distribution (most widely used)

A close up of a clock

Description automatically generated

PDF:

A close up of a device

Description automatically generated

1. Exponential Distribution

A picture containing clock

Description automatically generated

1. Beta Distribution

A picture containing object, clock

Description automatically generated

Where,

A close up of a watch

Description automatically generated

1. Gamma Distribution

A picture containing object, clock, meter

Description automatically generated

PDF:

A close up of a piece of paper

Description automatically generated

1. Attached