**Chapter 1**

Bar, histogram, summary statistics -summarise (min,max,sd)

##histogram & kernal density estimator

2 histograms

2 Histograms – normalized

2 Histograms – kernel

Normal probability – QQ plot

Box plot

Box plot with diff categorical

* For normality check QQplot or histogram

**Chapter 2**

Hypothesis , confidence interval , t.test

One sample T test(normality), 2 smaple T test ( check normality and variance)

**Chapter 3**

Bivariate EDA

One way Anova: Assumptions – normality, variance

pOst hoc- Tukeys

**Chap 4**

Correlation, scatter plots

Simple linear regression

Assumptions of Slr ( plots)

**Chapter 5**

2 Way Anova

Data exploration

Side by side bar chart

Interactions

With interactions – slicing post hoc

Assumptions: Normality, variance, Random block

**Chap 6**

Multiple Linear Regression

Deteriming coeffs

Assumptions

#Global P value for each categ variable \*\*\*\*\*\*\*

#“car::Anova” function in R on your linear regression object to get the p-values for each categorical variable.

car::Anova(ames\_lm2)

**Chap7**

* **Model selection**
* **Forward,back,step**

**Chap 8**

* **Diagonostics**
* **Misspecified, normality( box cox)**

**Chap 9:**

**Outliers, influential**

**Chap 11:**

**Regularised regression**

**Chap12: Categorical**

**Chap13: logistic regression: coefficient, conardance**