OBSOLETE R CHUNKS FROM MY PROJECT (FOR CODE REFERENCE ONLY)

#The test data frame needs to be aggregated as to flatten out (aggregate) some of the features so that a predictive analysis can be done.

```{r aggregate the local data frame}

#agg\_data\_local <- project\_data\_local %>% group\_by(ID) %>% summarise(AvgGPA = mean(GPA), Avg\_Full\_Time\_Terms = mean(FT), Admit\_Term = first(ATerm), Number\_of\_Terms = n(), GradIndic = first(Graduated), Acad\_Prog = first(AcadProg))

```

#Plot some a counts chart from the aggregated data frame to visualize the relationship between the Number of Terms and Average GPA.

```{r}

ggplot(agg\_data\_local, aes(x= Number\_of\_Terms, y = AvgGPA)) + geom\_count() + labs(x = 'Number of Terms', y = 'Average GPA')

```

#Plot a histogram from the aggregated data frame to visualize the relationship between the Average GPA and Number of Students by Academic Program.

```{r histogram plot}

ggplot(agg\_data\_local, aes(AvgGPA, fill = Acad\_Prog)) + geom\_histogram(binwidth = .1) + labs(x = 'Average GPA', y = 'Number of Students by Academic Program')

```

#Plot a Density Plot from the aggregated data frame to visualize the relationship between the Average GPA and Number of Students by Academic Program.

```{r densiy plot}

ggplot(agg\_data\_local, aes(x= AvgGPA, fill = Acad\_Prog)) + geom\_density(col = NA, alpha = .35) + labs(x = 'Average GPA', y = 'Density')

```