GRADUATE ENTRY VISUALISATION
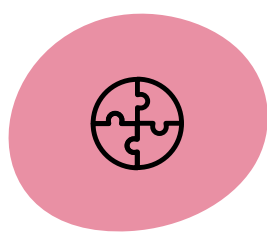
WHAT DOES IT TAKE TO GET ADMITTED IN THE TOP UNIVERSITIES OF USA?

Visualisation carried out using ggplot in R

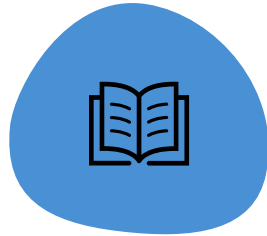www.shrishtichoudhary.com

WHAT ARE THE IMPORTANT VARIABLES?

Entry test scores, Statement of Purpose, University Ranking & Reputation

Scores
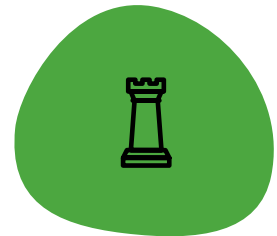GRE, TOEFL & CGPA are the most important

SOP
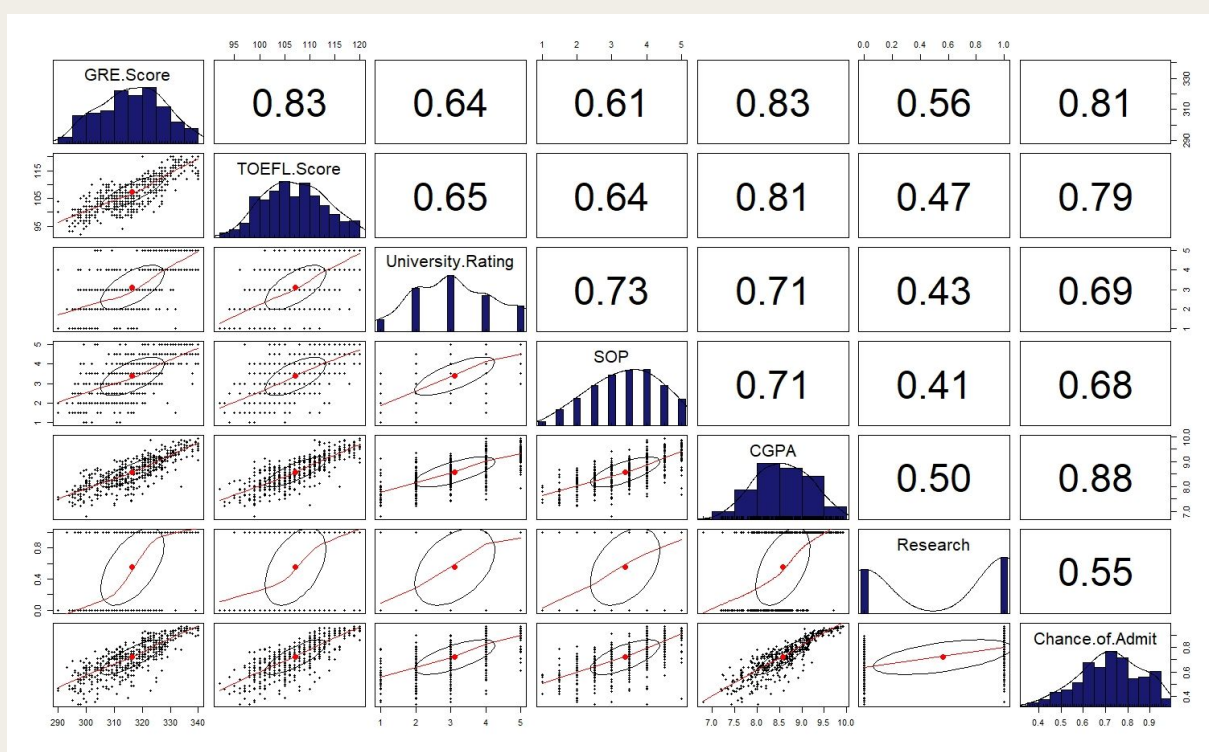Statement of Purpose holds a dominant relevance.

University Rank
Rank is positively correlated to chance of admit

Chance of Admit
The response variable that we will analyse against all others.

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CORRELATION, DISTRIBUTION, SCATTERPLOT MATRIX

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QUICK LINEAR REGRESSION INSIGHT

Regression tells us the factor that holds the highest significance towards the 'Chance of Admit'
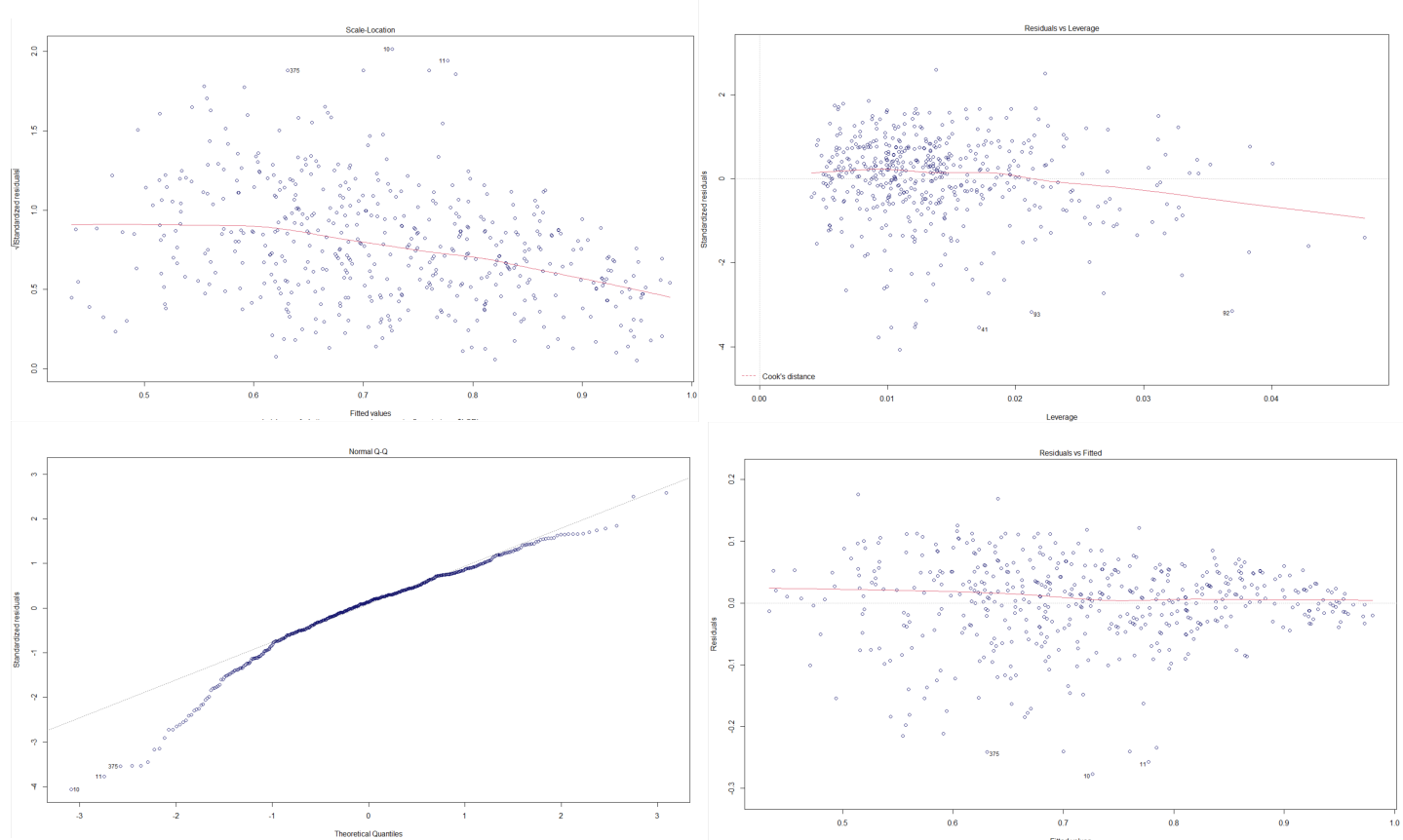
ANALYSIS OF VARIANCE TABLE

	DEGREE OF FREEDOM	SUM	MEAN SQUARE	F VALUE	P VALUE
GRE	Item 1	6.5275	6.5275	1395.649	<2.2E-16***
RESEARCH	1	0.1162	0.1162	24.842	8.631E-07***
SOP	1	0.5144	0.5144	109.979	<2.2E-16***
TOEFL	1	0.2352	0.2352	50.287	4.634E-12***
UNI RANK	1	0.0764	0.0764	16.338	6.145E-05***
LOR	1	0.1649	0.1649	35.254	5.465E-09***
RESIDUALS	493	2.3058	0.0047		

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RESIDUAL PLOT

All variables are highly relevant when determining the chance of admit

A very good fitted Linear Model

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