

# Data Analysis for Education Consultants

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2020

# Background

Education consultancy is one of the major industry which has been in operation for a quite a some time now, generally their success is measured based on the parameter that how well the student manage to earn after following their advice on the choice of college and the course.

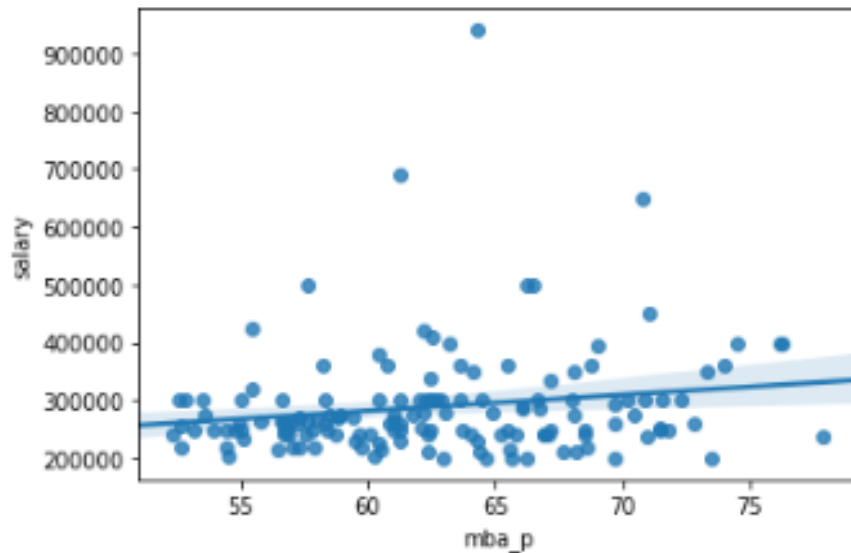
# Exploratory Data Analysis

## Correlation between non categorical factors

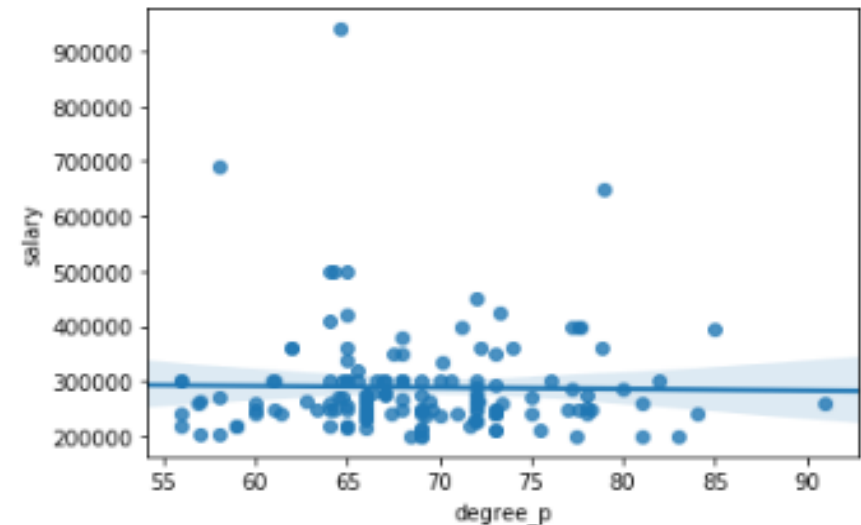
	sl_no	ssc_p	hsc_p	degree_p	etest_p	mba_p	salary
sl_no	1.000000	-0.093480	-0.218428	-0.102250	0.041467	-0.072432	0.063764
ssc_p	-0.093480	1.000000	0.293416	0.380657	0.317892	0.430560	0.035330
hsc_p	-0.218428	0.293416	1.000000	0.221307	0.284672	0.329983	0.076819
degree_p	-0.102250	0.380657	0.221307	1.000000	0.217683	0.494093	-0.019272
etest_p	0.041467	0.317892	0.284672	0.217683	1.000000	0.284143	0.178307
mba_p	-0.072432	0.430560	0.329983	0.494093	0.284143	1.000000	0.175013
salary	0.063764	0.035330	0.076819	-0.019272	0.178307	0.175013	1.000000

# Correlation between Different factors and salary

$\hat{Y} = 114715.29018899679 + [2779.51111313] \text{ mba\_p}$   
The R-square is: 0.030629529410807547  
The mean square error of price and predicted value is: 8409560162.271541



$\hat{Y} = 307650.38245922566 + [-276.32859597] \text{ degree\_p}$   
The R-square is: 0.0003714190255738048  
The mean square error of price and predicted value is: 8672057739.205791

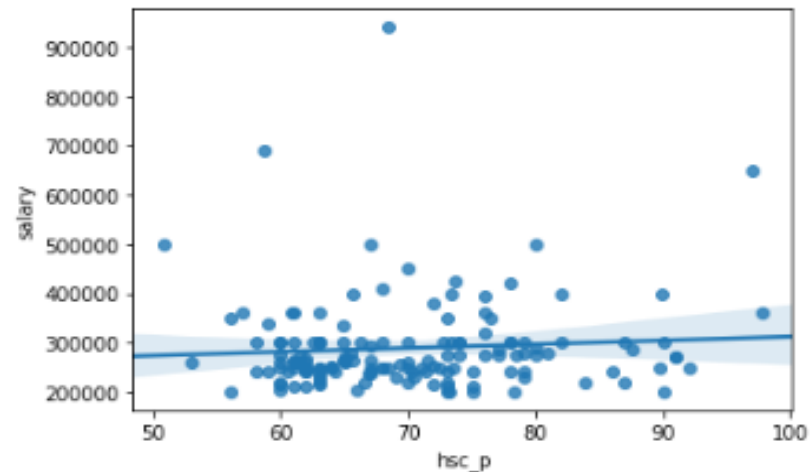


# Correlation between Different factors and salary

$\hat{Y} = 234843.62750858403 + [769.54711447] \text{ hsc\_p}$

The R-square is: 0.005901163822659261

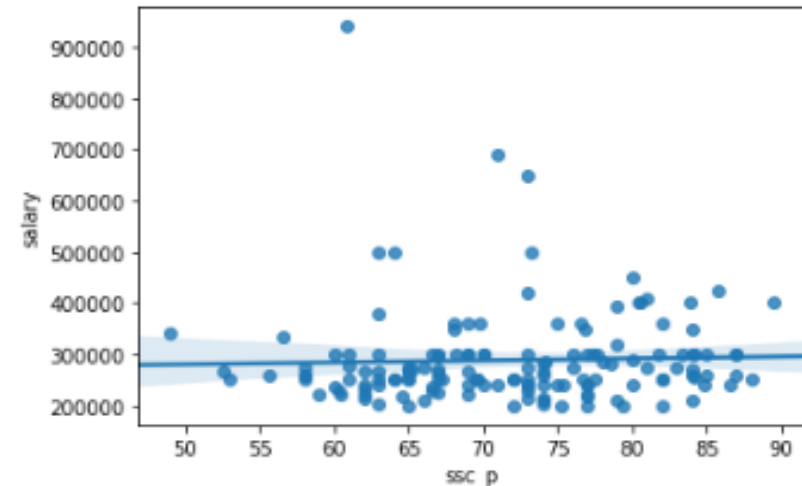
The mean square error of price and predicted value is: 8624085655.297733



$\hat{Y} = 261483.4135696075 + [378.85427599] \text{ ssc\_p}$

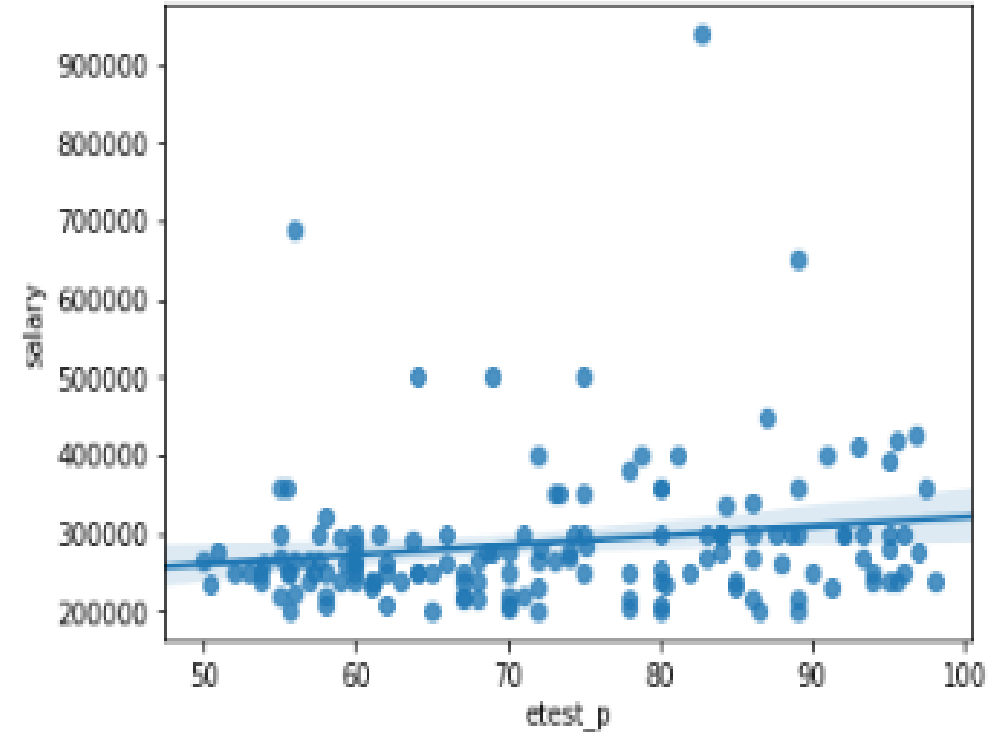
The R-square is: 0.0012482330170948686

The mean square error of price and predicted value is: 8664451132.406292

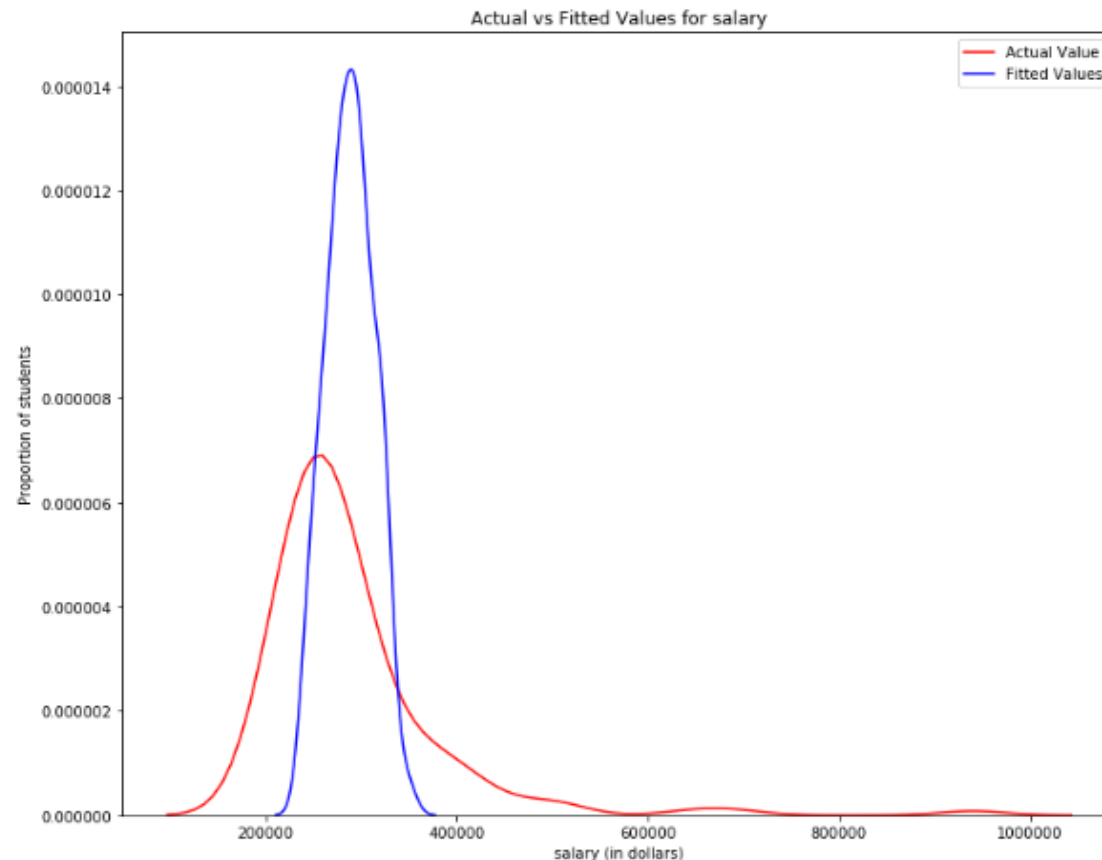


# Correlation between Different factors and salary

$\hat{Y} = 199761.83197581192 + [1213.76231223] \text{etest\_p}$   
The R-square is: 0.03179349643438667  
The mean square error of price and predicted value is: 8399462422.543881



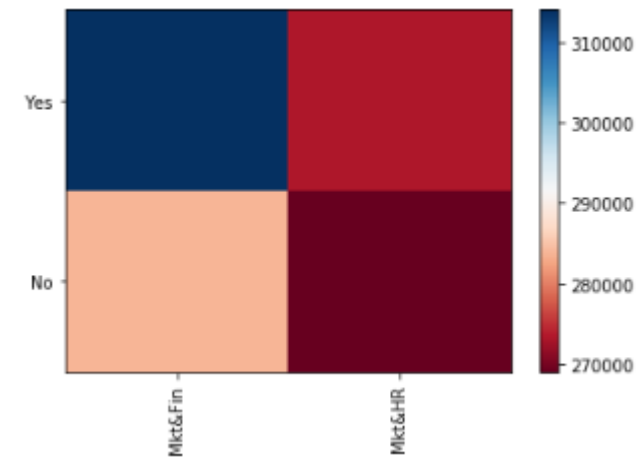
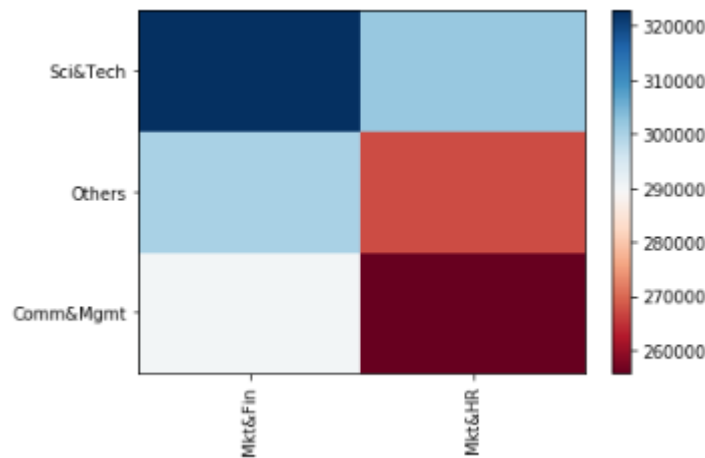
# MODEL FIT



Independent variable used in Multiple linear regression are MBA, Undergrad, Higher secondary, Secondary and aptitude test percentage. The predicted value curve is fitted on actual value curve to know the efficiency of model. If we remove outliers from our dataset then efficiency of model will improve drastically.

# Categorical factors

Following matrix helps us summarize the impact of different choices on salary offered to students after post-graduation. From the below two matrix, it can be safely concluded that student with Science and Technology background, having some amount of work experience and Completed MBA with Marketing and Finance specialization are generally offered the highest salaries.





## CONCLUSION

It can be safely concluded that student with Science and Technology background, having some amount of work experience and Completed MBA with Marketing and Finance specialization are generally offered the highest salaries.

A large, irregular, dark green and blue watercolor splash with the text "THANK YOU" in white.

THANK YOU