# Analysis of MBA SALARIES

# NAME: <ASHUTOSH SHAW>

# EMAIL: <ashu.shaw09@gmail.com>

# COLLEGE: <DTU>

**Field Description**

age age - in years

sex 1=Male; 2=Female

gmat\_tot total GMAT score

gmat\_qpc quantitative GMAT percentile

gmat\_vpc verbal GMAT percentile

qmat\_tpc overall GMAT percentile

s\_avg spring MBA average

f\_avg fall MBA average

quarter quartile ranking (1st is top, 4th is bottom)

work\_yrs years of work experience

frstlang first language (1=English; 2=other)

salary starting salary

satis degree of satisfaction with MBA program (1= low, 7 = high satisfaction)

Missing salary and data are coded as follows:

998 = did not answer the survey

999 = answered the survey but did not disclose salary data

Size of data set: 274 records

**Articulate a Hypothesis (or two) that you could test using a Regression Model**

* Quarter of MBA students has an inverse relation with salary of MBA students
* Age of MBA student has an inverse relation with salary of MBA students
* Salary of MBA student increases with spring MBA average

Based on P-values

* There is a strong relation between salary and spring MBA average (i.e with increase in salary of MBA students the spring MBA average increases) as the p value is less than 0.05 (p-value < 2.2e-16)
* p-value is less than 0.05 so we can generate the regression model

INFERENCE from linear regression model :

* An increase of 1 in age , there is a decrease of 2729 in starting salary
* An increase of 1 in spring MBA average , there is increase of 4803 in starting salary
* An increase of 1 in quartile ranking, there is decrease of 2050 in starting salary