**INFM 600 – WORK DISTRIBUTION**

**Preparation of research Questions:**

Each individual in our group wanted to answer different questions with the data set that we are using. Since we all had our own interests, we decided to come up with two questions each and individually work on these questions throughout the semester. Rather than focusing on one, we decided to have 6 questions total, and each individual is assigned their own questions.

Abhimanyu’s Questions:

* Job satisfaction comes with more salary compensations/expectations?
* Does the number of years in a job affect the workers’ willingness to switch?

Rishi’s Questions:

* Is there a correlation between years coding professionally and job satisfaction?
* Does a person’s age affect their willingness to switch jobs?

Jhon’s Questions:

* Which country try has the most skilled coders?
* Do people use sites like stack overflow to find new jobs?

**Data Cleaning:**

Our group decided to do our data cleaning as a group to make sure that we do not eliminate data that the others might need to use for their questions and we wanted to work with one centralized dataset to keep things more organized. Also, to be consistent with our variables, and wanting to eliminate the hassle of putting three scripts and making it one, all three contributed to creating a R scripts for data cleaning into one script.

**Analysis:**

After the data was cleaned, each contributor did their own analysis for the questions that they formulated.

Abhimanyu:

* Performed analysis for questions 1 and 4
* Created R script for question and analyzed its results

Rishi:

* Performed analysis for questions 2 and 5
* Created R script for question and analyzed its results

Jhon:

* Performed analysis for questions 3 and 6
* Created R script for question and analyzed its results

**Plotting:**

Abhimanyu:

* R-scripts for questions 1 and 4
* Plotted using correlation

Rishi’s Questions:

* R-scripts for questions 2 and 5
* Plotted using correlation

Jhon’s Questions:

* R-scripts for questions 3 and 6
* Plotted using mean of salary against country, using xyplot() function

**Cross Checking:**

Since all contributors decided to perform their own analysis, we decided that close to the end of the project, we would perform a cross checking process in which we would check each other’s work to ensure accuracy.

Abhimanyu:

* Checked Rishi’s and Jhon’s analysis

Rishi:

* Checked Abhimanyu’s and Jhon’s analysis

Jhon:

* Checked Rishi’s and Abhimanyu’s analysis

**Final Report:**

Abhimanyu:

* Finalize R-code and documentation
* Finalize plots and interpretations

Rishi’s Questions:

* Create Power Point presentation with results and interpretations

Jhon’s Questions:

* Finalize summary, contribution documentation, and Git deliverables