

# MD. RANA MAHMUD

Mirpur 12, Dhaka, Bangladesh

01750161301 ◊ 01970161301 ◊ ranamd0@gmail.com [GitHub](#) [LinkedIn](#)

## PROFILE

---

Highly specialized in Data Cleaning, Visualization, Analysis, and Machine Learning with 3 years of experience.

## EDUCATION

---

<b>Shahjalal University of Science and Technology, Sylhet</b> M.S. in Statistics Department of Statistics	<i>January 2018 - August 2019</i> Overall GPA: 3.33/4.0
<b>Shahjalal University of Science and Technology, Sylhet</b> B.S. in Statistics Department of Statistics	<i>January 2013 - December 2017</i> Overall GPA: 3.33/4.0
Second Major in Computer Science and Engineering Department of Computer Science and Engineering	Overall GPA: 3.40/4.0

## TECHNICAL STRENGTHS SKILLS

---

<b>Computer Languages:</b>	R Programming, Python, Java, C,C++, SQL
<b>R Packages:</b>	Tidyverse,ggplot2,reshape,shiny,shinydashboard flexdashboard, rmarkdown CARAT, randomForest, e1071 Rpart,tm,MICE,igraph,ROCR,party glmnet, tree, nnet,ggplotly
<b>Python libraries:</b>	numpy, pandas, Matplotlib, seaborn,scikit-learn pySpark,NetworkX,XGBoost,Bokeh,plotly
<b>Software &amp; Tools:</b>	Git,Github,HTML,CSS, LaTeX,Linux Terminal,Tableau SAS Programming, STATA
<b>Machine Learning Algorithms:</b>	Regression & Classification Tree, Random Forest, knn, Naive Bayes, PCA, Hierarchical clustering,k-means clustering, Linear, Ridge and Lasso Regression, SVM
<b>Deep Learning:</b>	Keras, Tensorflow

## PROJECTS

---

### R Programming

- Titanic Passengers Survival Prediction Using Machine Learning Random Forest algorithm
- Sales and Product Demand Forecast Web App:A web application dashboard to show monthly product demand and sales forecast in future developed using R Programming Language. Uses Facebook prophet forecasting library, Holt's winters additive, Holt's winter multiplicative and Holt's winter damped forecast. For plotting ggplot2 package was used.
- ACM Football Web Application: It displays ACM football club results, the head-to-head result for all the football matches in a dashboard.
- Mobile Banking Prevalence, Security Awareness, and Customer Satisfaction among the Users in Sylhet City Corporation, Bangladesh: Used machine learning algorithm SVM,KNN,xgBoost, Logistic Regression.

- Bengali Article on R Programming: <https://medium.com/r-programming-bangla>

## Python

- SUST DOC: A web application to fill up and generate filled pdf official forms/ documents of the university. Developed using the django python framework. <https://github.com/ranamahmud/sust-doc>

## Java

- Desktop weather application uses openweather API. Uses gson library library and java swing for the GUI interface. <https://github.com/ranamahmud/Abohawa>
- Bengali Antonyms(1000+ downloads) Dictionary android application. In this app used sqlite database,aes256 encryption to secure the database. [Google Play](#)
- Sust Holidays 2016(1000+ downloads)
- Fast Flashlight(1000+ downloads)
- Rickshaw Fair Sylhet: Android App to show and allow users to find and calculate rickshaw fair in Sylhet City Corporation.

## EXPERIENCE

---

### Ogive Analytics

September 2016 - Aug 2019

*Co-founder & Junior Statistician*

- Worked with students clients for thesis and research data analysis.

### CRUX

October 2018 - December 2018

*Intern Mobile App Developer*

### Shafi Consultancy Limited, Bangladesh

March 2018 - September 2018

*Statistical Programmer Internee*

## RELEVANT COURSES

---

### Statistics Courses

Statistical Computing I  
Statistical Computing II  
Data Mining  
Principles of Statistics  
Probability  
Advanced-Data Analysis

### CSE Courses

Computer Programming  
Data Structures and Algorithms  
Object-Oriented Programming  
Software Engineering  
Web Engineering  
Database Design

## POSITION OF RESPONSIBILITY

---

### Binary

April 2016 - July 2017

*Vice President*

*SUST*

- Hour of Code workshop using Python

## EXTRA-CURRICULAR

---

Data Scientist with R Track [datacamp.com](https://datacamp.com)

[Data Scientist with Python Track datacamp.com](#)

[Data Analyst with Python Track datacamp.com](#)

Solved 69 Programming Problems at uva online judge [UHunt Profile](#).

Solved 212 Programming Problems at URI online judge. [Profile](#)