

# Rabiul Awal

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## Research INTEREST

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Algorithm Design, Data mining and Machine Learning, Artificial Intelligence, Bioinformatics

## Education

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**Noakhali Science and Technology University, Noakhali, Bangladesh**

*Sonapur, Noakhali-3814*

B.Sc. IN COMPUTER SCIENCE AND TELECOMMUNICATION ENGINEERING GRADUATION YEAR:

2018, GPA= 3.22

*Jun. 2014 - PRESENT*

- Notable Coursework: Data Structures & Algorithms, Operating Systems, Artificial Intelligence & Neural Networks, Software Engineering, Digital Image Processing
- Frameworks/Packages Used: Tensorflow, Keras, OpenCV, Scikit-learn,
- Language: C, C++, Java, Python, Javascript, Matlab

## Projects

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### Kaggle Competitions | WRITTEN IN PYTHON

- Visualized and analyzed datasets using python packages and created programs that utilized ML techniques such as nearest neighbors, Naïve Bayes, SVMs, k-means, decision trees and random forest for both classification and regression tasks.

### Data Structure and Algorithm Projects | WRITTEN IN C++ [HTTPS://GITHUB.COM/RABIULCSTE](https://github.com/rabiulcste)

- Implemented Number Theory, Data Structure, Dynamic Programming & Graph Theory classical algorithms and developed numbers of problem solving techniques.

### Data Science, ML and AI Projects | WRITTEN IN Python [HTTPS://GITHUB.COM/RABIULCSTE](https://github.com/rabiulcste)

- **EDA and predictive models using Iris Data**  
Visualizing iris species dataset using matplotlib, seaborn, pandas, numpy packages and identifying Irish flower species. ML predictive models logistic regression, KNN, SVM, decision tree and random forests classifier used.
- **Art of Happiness: World Happiness data analysis**  
An exploratory data analysis and visualization using python libraries matplotlib, seaborn, pandas.
- **Dog or Cat: A CNN classifier**  
A convolutional Neural Network for image recognition on Dog vs Cat Dataset with 90% accuracy.

## Competitive Programming

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SOLVED 1500+ Online Judge Problems in LightOj, UVaOj, Codeforces, Spoj, Codechef

CONTEST STANDINGS

- DIU ACM ICPC Dhaka Region World Finals Warmup 2016, Rank – 17
- NSU Inter University Programming Contest Spring 2017, Rank – 26

## Volunteer Experiences

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2017 | Data Structure and Algorithms Trainer at CSTE CLUB, NSTU

2017 | Member of organizing committee of CSTE Carnival 2017

2016 | Judge and member of organizing committee of INTRA NSTU PROGRAMMING CONTEST

2016 | C Programing Trainer at CSTE CLUB, NSTU

2016 | Mentor at GRACE HOPER GIRLS PROGRAMMING CAMP, Asian University for Women, Bangladesh

2015 | Mentor at NATIONAL HIGH PROGRAMMING CONTEST

## Awards

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2016 | Champion at Intra NSTU Programming Contest

2015 | Champion at Intra NSTU Programming Contest

2015 | 2<sup>nd</sup> Runners Up at Comilla University Regional Programming Contest

## Workshops Attended

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BAPS - BUBT National Programming Camp 2013

*Jul. 2016*

## Writing

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### Technical Blog

[HTTP://WWW.IAMRABIUL.INFO](http://www.iamrabiul.info)

*July 2015 - Present*

Blogging about Problem Solving, Data Structure & Algorithms, Machine Learning & Artificial Intelligence

- Have written several data structures and algorithms tutorials for competitive programmers.