# Yeaseen Arafat

*B.Sc in Computer Science*
*Bangladesh University of Engineering & Technology*

## Career Objective

As an enthusiastic and creative individual with excellent analytical problem solving and team working skills, I want to extend my skills on the research field of Machine Learning, Deep Learning, Digital Image Processing, Blockchain Technology . To build up experience on technical field and achieve more practical knowledge, I am willing to take any responsibilities on the mentioned field.

## Education

2015–2019 **B.Sc in Computer Science**, *Bangladesh University of Engineering & Technology*, Dhaka, *CGPA – 3.49/4.00*.
Graduated

2012–2014 **Higher Secondary Certificate**, *Chittagong College*, Chittagong, *GPA – 5.00/5.00*.
12th grade

2006–2012 **Secondary School Certificate**, *Nasirabad Govt. High School*, Chittagong, *GPA – 5.00/5.00*.
10th grade

## Work Experience

2019 June-Present **Lecturer,CSE**, *Southeast University*.

## Publication

Title ***A Machine Learning Approach for Protecting Wireless Networks Against Virtual Jamming Based Denial of Service (DoS) Attacks.***

Supervisor Dr. A.K.M. Ashikur Rahman

Status Manuscript submitted for publication.

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## Skills

- Programming Languages: C, C++, Python, Solidity, Java, JavaScript, Assembly Language, MATLAB
- Scripting Language: HTML5, Bash, XML, CSS
- Framework: TensorFlow, Keras, Node.js, Express.js, React, Bootstrap
- SQL Database: MongoDB, Oracle SQL, MySQL
- Graph Database: Neo4j
- Modeling Langugaes: UML, ER Diagram
- Software Development Platform: GitHub Inc.
- Network Simulator: NS-2
- Digital System Design: Arduino, ATMega32, RaspberryPi 3
- Drawing and Design Tools: AutoCAD, LatexDraw
- Documentation & Presentation Applications: LaTeX, Office Suite, Excel 2013
- OS: Ubuntu, Windows

## Projects

***Machine Learning Projects***

**Decision Tree and AdaBoost for Classification from scratch**, *Language:* ***Python*** .
Github repository of this project

**Binary & Multi-class Perceptron from scratch**, *Language:* ***Python*** .
Github repository of this project

**Artificial Neural Network from scratch**, *Language:* ***Python*** .
Github repository of this project

**Dimensionality Reduction using Principal Component Analysis and Clustering using Expectation-maximization Algorithm from scratch**, *Language:* ***Python*** .
Github repository of this project

**Channel Equalization from scratch**, *Language:* ***Python*** .
Github repository of this project

**Matrix Factorization for Recommender System from scratch**, *Language:* ***Python*** .
Github repository of this project

***Deep Learning Project***

**Object Detection on real time Video Streaming**, *Language:* ***python***.
Object detection based on Faster-RCNN algorithm and Segmentation learning approaches.

***Website Development***

**Social Media: IInstagram**, *Platforms:* ***Node.js, Express.js, React, MongoDB***.
Live Website Link

***React App***

**yeaseen's-weather-app**, *Platforms:* ***React Hooks***.
Live Website Link

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***Igraphics Project*** **Angry Birds**, *Language:* ***C***, A casual puzzle video game based on Android game of the same name.Saved High score system also included..
Github repository of this project

***Android App*** **PLAY & LEARN**, *Language:* ***Java, SQL*** , An app for autistic child to play simple Q&A and to set alarms..
Github repository of this project

***C compiler*** **Compiler Project**, *Language:* ***C, GNU-Flex, Bison Tools***.
Github repository of this project

***DIP Project*** **Image Compression & Decompression**, *Language:* ***MATLAB***, Implementation of an efficient algorithm to compress an image and extract the original image based on a research paper..
Github repository of this project

***OS Project*** **NACHOS**, *Language:* ***C++***.
An instructional software that allows students to examine, modify and execute operating system software, full form - Not Another Completely Heuristic Operating System.

***Embedded System Project*** **Home Automation using AlexaPi** , *Language:* ***Java,C***.
An Alexa powered Amazon Echo made by Raspberry Pi. Remote control of home appliances with voice command was possible.

**Drunk Driver Detector**, *Language:* ***C***.
A system can detect the presence of alcohol in the car and to stop the vehicle if found.

## Technical Area of Interests

- Machine learning & Deep Learning
- Digital Image Processing
- Blockchain Technology
- Networking & Cyber Security

## Languages

Bengali Native proficiency.

English Professional working proficiency.

## Interests

Travelling, Music, Reading Literature, Photography.

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