



# MD. ABU BAKAR SIDDIQ SAYEM

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## CAREER OBJECTIVES

I am an enthusiastic, self-motivated student. I strive for the best in all that I do. Resolute for doing anything and sometimes spend a lot of time on very little things. Working in a challenging environment where I can use my skills to deliver value-added results by achieving the set results. I'm passionate about making changes and always looking forward to take new challenges.

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## EXPERIENCES

- **Software Engineer**  
Research and Development Team,  
Alchemy Software Limited.  
(November 2020 – Present)
- **Teaching Assistant (TA)**  
Dept. of Computer Science and Engineering (CSE),  
International Islamic University Chittagong (IIUC).  
(June 2019 – October 2019)

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## THESIS & RESEARCH EXPERIENCES

- **An Article** namely- “HActivityNet: A Deep Convolutional Neural Network for Human Activity Recognition.” Published in December 2021 EMITTER International Journal of Engineering Technology 9(2):357-376.  
**Link:** [https://www.researchgate.net/publication/357871345\\_HActivityNet\\_A\\_Deep\\_Convolutional\\_Neural\\_Network\\_for\\_Human\\_Activity\\_Recognition](https://www.researchgate.net/publication/357871345_HActivityNet_A_Deep_Convolutional_Neural_Network_for_Human_Activity_Recognition)
- **Train the model and Classify images using AlexNet** based on Convolutional Neural Network.
- **A Publication** namely - “Monitoring Harmful Sound Density and Light Intensity State in an Industrial Workplace.” Published in 2019 International Conference on Signal Processing and Communication (ICSC).  
**Link:** <https://ieeexplore.ieee.org/document/8938314?arnumber=8938314>

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## PROJECT

- **“Character Wise Text Generation”** – A generative model for text (character by character) using LSTM recurrent neural network with Keras in Python.  
**Link:** [https://github.com/ABS-Sayem/nlp/tree/main/character\\_wise\\_text\\_generation](https://github.com/ABS-Sayem/nlp/tree/main/character_wise_text_generation)
- **“Question Answering from Text”** – A simple Chatbot that import a text file and answer any questions related to the text in the file.  
**Link:** [https://github.com/ABS-Sayem/nlp/tree/main/question\\_answering\\_from\\_text](https://github.com/ABS-Sayem/nlp/tree/main/question_answering_from_text)
- **“Working with PDF”** – Extract information from pdf file.  
**Link:** [https://github.com/ABS-Sayem/nlp/tree/main/working\\_with\\_pdf](https://github.com/ABS-Sayem/nlp/tree/main/working_with_pdf)
- **A Project** on – “Voice Activated Home Automation System.” Presented in Techfest-2018, IIUC.  
**Link:** <https://drive.google.com/open?id=1GI1jQ8GgIk0aSAktaL1omfeWCP90hYwd>

## MACHINE LEARNING COURSES

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- **Neural Networks and Deep Learning** by – Coursera (deeplearning.ai – Andrew Ng)
- **Convolutional Neural Network** by - Coursera (deeplearning.ai – Andrew Ng)
- **Introduction to TensorFlow for Artificial Intelligence, Machine Learning and Deep learning** by - Coursera (deeplearning.ai – Andrew Ng)
- **Introduction to Deep Learning** by - Coursera (deeplearning.ai – Andrew Ng)
- **Natural Language Processing with Alice Xhao** by - PyOhio

## TECHNICAL SKILLS

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**Programming Language** – Python, C, C++.

**Machine Learning** – Classification, Regression, Prediction, Detection, Time Series Analysis, Recommendation System

**ML Tools** – Tensorflow, Keras, Colab, Pytorch, Opencv (cv2), Numpy, Pandas, Matplotlib

**NLP** – Basic Tasks (Tokenization, Lemmatization, Stemming, POS Tags, NER), Preprocessing, Cleaning, Sentiment Analysis, Word Embedding (Bag of Words, TF-IDF, Word2Vec,) Topic Modeling, Text Generation, Working on PDF.

**NLP Tools** – NLTK, Spacy, Gensim, RegEx, Keras

**Neural Networks** – ANN, CNN, RNN(LSTM), Transformer.

**IDE/Editors** – Visual Studio Code, PyCharm, Jupyter, Spyder, CodeBlocks, Notepad++.

**Source Control** - Github

## EDUCATION

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Exam	Concentration /Major	Institute	Result	Passing Year
M.Sc. in Engg. (Postgraduation)	CSE	International Islamic University Chittagong	(Not Published Yet)	(Pursuing)
B.Sc. in Engg. (Undergrade)	CSE	International Islamic University Chittagong	3.51 (Out Of 4) (CGPA)	December, 2019
H.S.C (Higher Secondary)	Science	Nowab Faizunnesa Govt. College, Laksam	4.00 (Out Of 5)	2013
S.S.C (Secondary)	Science	Laksam Pilot Govt. High School, Laksam	5.00 (Out Of 5)	2010

## EXTRA-CURRICULAR ACTIVITIES

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- **President**  
Gopalpur Ideal Club, Laksam, Comilla.  
(March 2020 – Present)
- **Program Co-Ordinator**  
Charity Organization of Bangladesh (COBA), Chittagong.  
(December 2018 – Present)
- **Executive**  
Operation Team, Shobdometro Chittagong.

(June 2018 – Present)

➤ **Former Executive**

IEEE, IIUC Student Branch, Bangladesh Section

(January 2018 – December 2018)

## LANGUAGE & ABILITIES

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➤ **Language:** Mother Tongue – “*Bengali*”.

Fluent in *Bengali* and Full working knowledge in *English*.

➤ **Abilities:**

- # Self learning ability
- # Good communication skill
- # Team work & Collaboration
- # Patient
- # Sincere
- # Punctual

## PERSONAL DETAILS

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**Date of Birth:** January 1<sup>st</sup>, 1994

**Nationality:** Bangladeshi (By Born)

**Marital Status:** Single

**Blood Group:** B (+ve)

**Religion:** Islam

## REFERENCES

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**Md. Khaliluzzaman**

**Assistant Professor,**

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International Islamic University Chittagong (IIUC)  
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