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**Research Gate:** https://www.researchgate.net/profile/Md-Sayem-12

**MD. ABU BAKAR SIDDIQ SAYEM**

**Education**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Exam** | **Concentration**  **/Major** | **Institute** | **Result** | **Passing Year** |
| M.Sc. in Engg.  (Postgrade)  B.Sc. in Engg.  (Undergrade) | CSE  CSE | Chittagong University of Science and Engineering  International Islamic University Chittagong | (-)  3.513 (Out  Of 4)  (CGPA) | (Pursuing)  (Aug 2022 – Present)  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 |

**Highlights**

* **Research Assistant (RA) (2018 to Present)**

Khaliluzzaman’s Lab

Dept. of Computer Science and Engineering

International Islamic University Chittagong

**Research Topics:** Computer Vision (Human Activity Recognition), NLP (Machine Translation), Deep Learning (CNN, LSTM, Attention NN)

* **Teaching Assistant (TA)** **(June 2019 – October 2019)**

Dept. of Computer Science and Engineering (CSE),

International Islamic University Chittagong (IIUC).

**Duties:** Conducting

**Job Experiences**

* **Software Engineer**

Research and Development Team,

Alchemy Software Limited.

(November 2020 – Present)

**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>

* **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

**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

* **“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>

* **“Working with PDF” –** Extract information from pdf file.

**Link:** 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**

* **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**

**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

**Extra-Curricular Activities**

* **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**

* **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**

**Date of Birth:** January 1st, 1994

**Nationality:** Bangladeshi (By Born)

**Marital Status:** Single

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

**Religion:** Islam

**References**

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| --- | --- |
| **Md. Khaliluzzaman**  **Assistant Professor**,  Dept. of Computer Science & Engineering (CSE)  International Islamic University Chittagong (IIUC)  Chittagong-4318, Bangladesh.  Cell: +8801711-199212  Email: [khalil@cse.iiuc.ac.bd](mailto:khalil@cse.iiuc.ac.bd) / [khalilcse021@gmail.com](mailto:khalilcse021@gmail.com) / [khalil\_021@yahoo.co.in](mailto:khalil_021@yahoo.co.in) | **Dr. Abdul Kadar Muhammad Masum**  **Associate Professor**,  Dept. of Computer Science & Engineering (CSE)  International Islamic University Chittagong (IIUC)  Chittagong-4318, Bangladesh.  Cell: +8801708-519252  Email: akmmasum@yahoo.com |