

# A K M Shahariar Azad Rabby

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🌐 <https://shahariarrabby.github.io>

📄 shahariarrabby      🐙 ShahariarRabby



## Career Objective

I am a diligent individual who is self-taught in Machine Learning and Deep Learning, have experiences in creating advance analytics strategy using data and building intelligent machine with creative interfaces & experiences. My experience is a mix of two years in academia doing research in AI, machine learning, and data science. I am passionate about social innovation & about multidisciplinary approaches. I believe no problem is beyond human inventiveness.

## Employment History

- 2019 Oct – Current      📌 **Software Engineer–Machine Learning.** 399 Mohakhali New DOHS, 1st Floor, Road #29, Dhaka, Bangladesh. 🌐 [apurba.com.bd](http://apurba.com.bd)
- 2019 Jan – Current      📌 **Lecturer,** Computer Science and Engineering Department, Daffodil International University, Dhanmondi, Dhaka, Bangladesh. (*Part-time position*). 🌐 [diu.edu.bd](http://diu.edu.bd)
- 2017 Oct – Current      📌 **Sr. Research Scientist (Computer Vision & AI Initiatives).** DIU NLP & Machine Learning Research Lab. 🌐 [nlp.daffodilvarsity.edu.bd](http://nlp.daffodilvarsity.edu.bd)
- 2019 Apr – 2019 Oct      📌 **Developer–AI.** Genex Digital. Level 12, Nitol Niloy Tower, Nikunjo 2 C/A, Dhaka 1229, Bangladesh. 🌐 [genex.digital](http://genex.digital)

## Education

- 2018      📌 **B.Sc. in Computer Science and Engineering,** Daffodil International University, Dhaka, Bangladesh.  
Thesis title: *Ekush: Bangla Handwritten Character Data Repository for NLP Research.* 🌐
- 2014      📌 **HSC, Science,** Cantonment Collage Cumilla, Cumilla Cantonment, Bangladesh.
- 2012      📌 **SSC, Science,** Muslim Modern Academy, Dhaka Cantonment, Dhaka, Bangladesh.

## Projects

- 📌 **Ekush**, the largest dataset of handwritten Bangla characters with 367,018 isolated handwritten characters written by 3086 unique writers which include variety of the district, age group and the equal number of male and female. 🌐 [shahariarrabby.github.io/ekush](https://shahariarrabby.github.io/ekush)
- 📌 **GYMX**, an online gym management tool build with Laravel which build a bridge between gym customer and trainer. It is also a digitalized the system including online payment, task, chat and alert etc. 🌐 [gymxx.herokuapp.com](http://gymxx.herokuapp.com)
- 📌 **Hello-Doctor** is a web app to control patient prescription system where a doctor will suggest some generic medicine name and patient can view all medicine lists and price by clicking on the generic name. 🌐 [hello-doctor.herokuapp.com](http://hello-doctor.herokuapp.com)
- 📌 **ISHARA-LIPI** is first multipurpose comprehensive open access isolated characters and digits dataset for Bangla Sign Language(BdSL). 🌐 [isharalipi.sanzidscloud.com](http://isharalipi.sanzidscloud.com)

## Selected Publications

### Journal Articles

- 1 Rabby, A. S. A., Haque, S., Abujar, S., & Hossain, S. A. (2018). Ekushnet: using convolutional neural network for bangla handwritten recognition. *Procedia Computer Science*, 143, 603–610. 8th International Conference on Advances in Computing Communications (ICACC-2018).

- 2 Rabby, A. S. A., Haque, S., Shahinoor, S. A., Abujar, S., & Hossain, S. A. (2018). A universal way to collect and process handwritten data for any language. *Procedia Computer Science*, 143, 502–509. 8th International Conference on Advances in Computing Communications (ICACC-2018).
- 3 Sanzidul, I., Mousumi, S. S. S., Rabby, A. S. A., Hossain, S. A., & Abujar, S. (2018). A potent model to recognize bangla sign language digits using convolutional neural network. *Procedia Computer Science*, 143, 611–618. 8th International Conference on Advances in Computing Communications.

## Conference Proceedings

- 1 Haque, S., Rabby, A. S. A., Laboni, M. A., Neehal, N., & Hossain, S. A. (2019). Exnet: deep neural network for exercise pose detection. In K. C. Santosh & R. S. Hegadi (Eds.), *Recent trends in image processing and pattern recognition* (pp. 186–193). Singapore: Springer Singapore.
- 2 Rabby, A. K. M. S. A., Haque, S., Islam, M. S., Abujar, S., & Hossain, S. A. (2019). Ekush: a multipurpose and multitype comprehensive database for online off-line bangla handwritten characters. In K. C. Santosh & R. S. Hegadi (Eds.), *Recent trends in image processing and pattern recognition* (pp. 149–158). Singapore: Springer Singapore.
- 3 Sanzidul, I., Mousumi, S. S. S., Jessan, N. A., Rabby, A. K. M. S. A., & Hossain, S. A. (2018). Ishara-lipi: the first complete multipurposeopen access dataset of isolated characters for bangla sign language. In *2018 international conference on bangla speech and language processing (icbslp)* (pp. 1–4).

🌐 Read more publications here: <https://shahariarrabby.github.io/publication>

## Nanodegree

- 📌 Self Driving Car Engineer Nanodegree Program, Udacity.
- 📌 Deep Learning Nanodegree Program, Udacity.
- 📌 Computer Vision Nanodegree Program, Udacity.

## Certification

- 📌 Deep Learning Specialization. deeplearning.ai, Coursera.
- 📌 Machine Learning Stanford Online, Coursera.
- 📌 TensorFlow in Practice Specialization. deeplearning.ai, Coursera.
- 📌 Learning How to Learn. McMaster University & University of San Diego, Coursera.
- 📌 Unpacking the Internet of Things (IoT). Udemy.
- 🌐 Check More Nanodegree and Certificates: [shahariarrabby.github.io/certification](https://shahariarrabby.github.io/certification)

## Skills

Coding	📌 Python, C, PHP, SQL, L <sup>A</sup> T <sub>E</sub> X.
Web Dev	📌 HTML, CSS, SASS, JavaScript.
Framework	📌 Keras, Tensorflow, Pytorch, Laravel, Django, Wordpress.
Tools	📌 Git & Github, Linux, Bash.
Misc.	📌 Research, teaching, training, consultation, Morse Code.
Languages	📌 Strong reading, writing and speaking competencies for Bangla and English.

## Awards and Achievements

- 📌 IBM-Centre of Excellence, *Developed a Minimum Viable product (MVP)*, To Build a ChatBot Using IBM Watson.(Mentored by IBM).

## Awards and Achievements (continued)

- **Best Paper Awards**, For *Bangla Handwritten Digit Recognition using Convolutional Neural Network*, IEMIS conference, University of Engineering and Management, Kolkata, India.
- **Best Paper Awards**, For *Ekush: A Multipurpose and Multitype Comprehensive Database for Online Off-line Bangla Handwritten Character*, rtip2r conference, Solapur University, Pune, India.
- **1st Runner UP**, 1st runner up on 3 minute pitching competition at *2nd Symposium on Bangla Computational Linguistics (SBCL)*, SUST, Sylhet.
- **Department Prize for Outstanding Research Contribution (2018)**, Department of Computer Science & Engineering, Daffodil International University, Dhaka, Bangladesh.
- **Best Student Research Award (2019)**, Department of Computer Science & Engineering, Daffodil International University, Dhaka, Bangladesh.
- **Business Communication Course**, Global Access Asia Program.
- **Conducting Workshop** about Machine Learning & Research in three different university.

## References

**Dr. Syed Akhter Hossain**

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