Md. **Shopon**

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• Linkedin Profile • Github Profile • Researchgate Profile

Research Interest: Deep Learning, Computer Vision, Natural Language Processing, Image Processing, Data Mining

EMPLOYMENT EXPERIENCE

Lecturer
Department of Computer Science and Engineering, University of Asia Pacific
Dhaka, Bangladesh
September, 2018-Present

Teaching Assistant
Department of Computer Science and Engineering, University of Asia Pacific
Dhaka, Bangladesh
April, 2018-August, 2018

Deep Learning Engineer
Gaze Technology Incorporation
Primary Responsibilities: Building computer vision and natural language processing based software applications.
Dhaka, Bangladesh
May, 2017-March, 2018

Research Assistant
Machine Learning Lab, University of Liberal Arts Bangladesh
Primary Responsibilities: Developing an Android application for ICT Ministry of Bangladesh to increase the aesthetic beauty of handwriting. Keras was used for training the handwritten character classifier and Java was used for developing the android application.
Dhaka, Bangladesh
February, 2017- January, 2017

EDUCATION

University of Asia Pacific (UAP)
Bachelor of Science in Computer Science and Engineering with Honors
Dhaka, Bangladesh
May, 2014-April, 2018
- **CGPA: 3.81/4.00**
- **Thesis: End to End Optical Character Recognition Using Entirely Synthetic Dataset - Link**

Govt. Science College
Higher Secondary Certificate
Dhaka, Bangladesh
July, 2011-April, 2013
- **GPA: 5.00/5.00**

Motijheel Govt. Boys High School
Secondary School Certificate
Dhaka, Bangladesh
January, 2001-April, 2011
- **GPA: 5.00/5.00**

PUBLICATIONS (Total Citation-106)

Journal Articles
- Biswas, M., Islam, R., Shom, G. K., Shopon, M., Mohammed, N., Momen, S., & Abedin, A. (2017). *Banglalekha-isolated: a multi-purpose comprehensive dataset of handwritten bangla isolated characters*. Data in brief, 12, 103–107**. -** Link

Conference Papers
- Shopon, M., Mohammed, N., & Abedin, M. A. (2016). *Bangla handwritten digit recognition using autoencoder and deep convolutional neural network*. In Computational intelligence (iwci), international workshop on (pp. 64–68). IEEE. - Link
- Shopon, M., Mohammed, N., & Abedin, M. A. (2017). *Image augmentation by blocky artifact in deep convolutional neural network for handwritten digit recognition*. In Imaging, vision & pattern recognition (icivpr), 2017 ieee international conference on (pp. 1–6). IEEE. - Link

- Shopon, M., Adnan, M. A., & Mridha, M. F. (2016). *Krill herd based clustering algorithm for wireless sensor networks*. In Computational intelligence (iwci), international workshop on (pp. 96–100). IEEE. - Link
- Mahmud, A., Akhtaruzzaman, A., & Shopon, M. (n.d.). *An incremental clustered gradient method for wireless sensor networks*. In 21st Saudi Computer Society National Computer Conference. IEEE. - Link
- Ahmed, S., Islam, M., Hassan, J., Ahmed, M. U., Ferdosi, B. J., Saha, S., & Shopon, M. (2019). *Hand Sign to Bangla Speech: A Deep Learning in Vision based system for Recognizing Hand Sign Digits and Generating Bangla Speech*. 2019 International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019). **-** Link
- Shopon, M., Diput,N.H., & Mohammed, N. (2019). *End to End Optical Character Recognition Using Sythetic Dataset Generator For Noisy Conditions*. In International Joint Conference on Computational Intelligence, IJCCI 2019. - Link
- Nishat,Z.K. & Shopon, M. (2019). *Unsupervised Pretraining and Transfer Learning Based Bangla Sign Language Recognition*. In International Joint Conference on Computational Intelligence, IJCCI 2019. - Link
- Nishat,Z.K. & Shopon, M. (2019). Synthetic Class Specific Bangla Handwritten Character Generation Using Conditional Generative Adversarial Networks. In International Conference on Bangla Speech and Language Processing, ICBSLP 2019.
- Shopon, M , Bidirectional LSTM with Attention Mechanism for Automatic Bangla News Categorization In Terms of News Captions, in INTERNATIONAL CONFERENCE ON ELECTRONIC SYSTEMS AND INTELLIGENT COMPUTING(ESIC2020), Springer - Accepted
- Karim.A, Razin,J, Ahmed,N. Shopon, M. Alam.T (2020). Automatic Violence Detection Method Using Convolution Neural Network. In International Conference On Sentimental Analysis And Deep Learning (ICSADL 2020)
- Shahin.M, Ahmed.T, Rahman.S, Shopon.M, Classification of Bangla News Articles Using Bidirectional Long Short Term Memory (IEEE TENSYMP 2020)

SKILLS

- **Programming Language:** Python, C, C++, Java
- **Algorithm Expertise:** Dynamic Programming, Game Theory, Number Theory
- **Hardware:** Raspberry Pi, Arduino
- **Development Platform:** Android Application Development, Wordpress
- **Text Processing:** Latex, Microsoft Word
- **Version Controlling:** Git

RESEARCH AND CO-CURRICULAR ACTIVITIES

- **Workshops and Conferences:**
    - **Speaker - Workshop on Properly writing research papers using Latex**
    - **Speaker - Workshop on Python for machine learning researchers.**
    - **Organizer - International Conference on Computer and Information Technology (ICCIT), 2017**
    - **Organizer - Workshop on Research methodology.**
    - **Organizer - Workshop on Writing research papers using Microsoft word**
- **Leadership:**
    - **Convener – UAP Career Development Club**
    - **Organized Several Seminars and Workshops**
    - **Former President- UAP Programming Contest Club**
    - **Former President- UAP CSE Researchers Hub**
- **Programming Competitions:**
    - **Onsite:** Participation in 24 Onsite Contests

- **o Online:** Codeforces, Codechef, Hackerrank, Google Code Jam, CS Academy
- **o Offline:** UVa, Timus, LightOJ, URI

CERTIFICATIONS AND AWARDS

- **Vice Chancellor's Merit Award:** Spring - 2015, Fall - 2016, Spring - 2017, Fall-2017
- **UAP Hardware & Software Exposition - 2016**
  - o **Runner Up -** Hardware Project Exhibition
  - o **Champion -** Programming Contest (Junior Section)

REFERENCES

1. **Dr. Mohammad Shorif Uddin**
   - Professor, Department of Computer Science and Engineering, Jahangirnagar University
   - Email: shorifuddin@juniv.edu.bd
   - Contact No.: +8801747615832
2. **Dr. Nabeel Mohammed**
   - Assistant Professor, Department of Electrical and Computer Engineering, North South University
   - Email: nabeel.mohammed@northsouth.edu
   - Contact No.: +8801720505591