Nowshin Tasnim

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RESEARCH INTEREST

Natural Language Processing • Computer Vision • Image Processing • Machine Learning Deep Learning

ACHIEVEMENTS

- Dean's Award, Session: 2017-2018   2017 – 2018
  Khulna University of Engineering & Technology
  For attaining 2nd year GPA of at least 3.75.

- Best Student Award   2014
  Dr. Khastagir Govt. Girls' High School
  For being a good and ideal student throughout my high school life.

- Math Camper at Kazi Motaher hossain camp 2013   2013
  Organized by Bangladesh Math Olympiad (BDMO) committee
  For acquiring good marks in a online geometry competition arranged by BDMO.
  To get trained on basics of Number Theory.

- Math Camper at 1st and 2nd Lilaboti mathematical camp 20   2013
  Organized by Bangladesh Math Olympiad (BDMO) committee for only girls
  For performing good in the regionals.

PUBLICATIONS

[1] <u>Nowshin Tasnim</u>, Mahmudul Hasan, and Ishrak Islam, "Comparisonal study of deep learning approaches on retinal oct image," *International Conference on Innovation in Engineering and Technology (ICIET) 2019*, https://arxiv.org/abs/1912.07783, Dec 2019.

EDUCATION

Khulna University of Engineering & Technology, Khulna, Bangladesh

- B.Sc. in Computer Science and Engineering   Feb 2017 – 2021
  - Cumulative GPA till 3-1 : 3.63 / 4.0
  - Departmental lab CGPA till 3-1 : 3.87 / 4.0

Chittagong College, Chittagong, Bangladesh

- H.Sc. in Science   2014 – 2016
  - Cumulative GPA: 5.00 / 5.00

Dr. Khastagir Govt. Girls' High School, Chittagong, Bangladesh

- S.Sc. in Science   2014 – 2008
  - Cumulative GPA: 5.00 / 5.00

TECHNICAL SKILLS

Languages
- C, C++, Python, Java, LaTeX, Arduino, Android, Assembly

Web Programming
- PHP, HTML, CSS, Javascript, Jquery, tensorflows

DBMS
- ORACLE 10g, SQL, MySQL

Version control
- Git

Library/Framework/Others
- Numpy, Scikit-learn, Pandas, Keras, PyTorch, Tensorflow, Matplotlib, Django, Bootstrap, Laravel

PROJECTS	**Label to Gray-scale Image Generation**	2019

- Deep learning based gray-scale image generation from MNIST and FMNIST dataset.
- A website is created to visualize the results using python based framework django.

Comparisonal study of Deep Learning approaches on Retinal OCT Image 2019

- In this research, we have taken an attempt to detect retinal diseases from optical coherence tomography (OCT) X-ray images using a deep learning (DL) based approach which can identify three conditions of the retina.
- https://github.com/Shauqi/Comparisonal-study-on-Deep-Learning-approaches-on-Retinal-OCT-Image-Analysis

Anime Club 2019

- This is a database based project to manage the work of club members using laravel(a PHP based framework), SQL and CSS.
- https://github.com/NowshinTasnim/animeclub$_database_project$

Buddy (A social networking site) 2019

- It is a website based project using PHP, CSS, Javascript, Jquery, Mysql, Apache server.
- https://github.com/NowshinTasnim/Social$_networking_site$

Smart Street Light 2019

- This is an Arduino based project. The lights of street will turn on automatically when the environment gets darker to a certain level. Moreover, when there will be no human or traffic in a certain range, the lights will glow dimly to save energy consumption.
- https://github.com/NowshinTasnim/Smart$_street_Light$

StudyHelp 2018

- This is an android based project using java, json parsing.
- https://bitbucket.org/blackripper/study-help/src/master/

Calculator 2018

- This is a C++ based project where mathematical calculation related to vector, matrix, number theory, base conversion, statistics can be easily done in the command prompt.
- https://github.com/NowshinTasnim/Calculator

Banking System 2017

- Command prompt based banking system using C.
- https://github.com/NowshinTasnim/Banking$_system$

OTHER ACTIVITIES	**DREAM(Voluntary Blood Donation Organization)**, Khulna University of Engineering & Technology

- Resource manager   Jan 2019 – Feb 2020

Dhrupodi(Dancer's Association), Khulna University of Engineering & Technology

- Member   2017 – Present

Bangladesh Mathematical Organization

- Academic Team Member   2014 – Present

LANGUAGES
- Bengali
- English

INTERESTS   Art, Writing, Music.