Biplob Biswas

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Education	**Bachelor of Science, 2016** in Computer Science and Engineering Bangladesh University of Engineering and Technology CGPA: 3.73/4.00 **Ph.D. program (2018-present):** in Computer Science and Engineering The Ohio State University CGPA: 3.783/4.00 (4.00/4.00 in Autumn, 2019)

Research Interest	● Data Mining ● Machine Learning in Real-Life Applications

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Research Experience	● *A Longitudinal Study of Pre-installed Software in Android Firmware* - Paper submitted to **NDSS'20** under the supervision of Prof. Dr. Zhiqiang Lin. Author: Biplob Biswas, Chaoshun Zuo, Juan Caballero, Zhiqiang Lin. ● *Incorporating Unique Diversified Behaviors Observed over Road Traffic of Dhaka City in A Microscopic Traffic Simulator* - Undergraduate thesis under the supervision of Dr. A. B. M. Alim Al Islam

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Skills	**Programming Language** - JAVA, C, C++, Python, PHP, JavaScript. **Database** -Oracle, MySQL. **Framework** –Android, CodeIgniter. **Security –** Client-server secure communication. **Hardware** – EMV Chip card, HSM, NFC device. **Software architecture –** Microservice architecture. **Misc -** Good understanding of Machine Learning algorithms.

Selected Academic Projects	● **Graduate Research Assistant** Developed a python project to extract and analyze Android firmware. ● **News Article Classifier** A multi-class classifier to classify BBC news articles to their categories. ● **DhakaSim** A microscopic traffic simulator to mimic real traffic scenarios in a virtual environment using real road network topology and real traffic data. Our proposed simulator allows us to foresee the consequences of taking any measure at the infrastructure level by simulating different traffic scenarios. ● **KobitaGuccho** An android app using SQLite database that contains a huge collection of poems with search, insert, sharing features.

- **Travelers' Diary**
  This Project was developed in our database course. We had used Oracle as our database. The application server was built using CodeIgniter framework.

- **Equation Plotter**
  A java application that can plot exponential, trigonometric, logarithmic functions, piecewise functions, and equations in two variables.

- **DX ball in C**
  This game was implemented using C and iGraphics (an OpenGL based graphics tool)

Accomplishments	• **1st Prize** in **Inter-class Physionet Data Challenge** on **In-hospital Mortality Prediction on ICU Data.** • **5th Prize** in **Inter departmental Project Show 2015** – KobitaGuccho, an android application that contains collection of poems. • **Education Board Scholarship** - for notable performance in the HSC Examination, 2010.
Hobby	1. Travelling 2. Photography