

# JOYANTA BASAK

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## CAREER OBJECTIVE

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To make the best use of my technical expertise in algorithmic development & analysis of intelligent systems in a research based career; hence to acquire and apply advanced knowledge in a particular field, **“Computational Biology”**

## RESEARCH INTERESTS

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- **Protein Functions & Structure**
- **Genome Assembly**
- **Health Analytics**
- **Machine Learning**
- **Stochastic Optimization**

## ACADEMIC BACKGROUND

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### **B.Sc. in Computer Science & Engineering**

Bangladesh University of Engineering & Technology (BUET)

Graduation completed on October, 2018

CGPA: 3.72/4.00

### **HSC (Higher Secondary Certificate)**

Dhaka City College, Dhaka Board (Science Group), Bangladesh

Passed in 2013

GPA: 5.00/5.00

### **SSC (Secondary School Certificate)**

Bangladesh Bank Adarsha High School, Dhaka Board (Science Group), Bangladesh

Passed in 2011

GPA: 5.00/5.00

## ACADEMIC ACHIEVEMENTS & SCHOLARSHIP

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- Dean's Merit Scholarship for maintaining **“Honors”** grade in junior & sophomore years, BUET
- Ranked in the top **2%** among 9500 prospective applicants in the most competitive BUET entry examination, 2013
- Placed in top **1%** of combined merit list in public examinations (SSC, HSC) by Ministry of Education, Bangladesh and qualified for Education Board Merit scholarships

## MAJOR PROJECTS

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### **Undergraduate Thesis**

October 2017 - October 2018

*A computational approach to predict Lysine Succinylation sites using machine learning based feature selection*

- Developed an efficient computational tool on CPLM-2.0 database which proposed a prediction scheme based on evolutionary conserved information of protein sequences. The study explored the efficacy of protein sequence based features and protein secondary structure for predicting Lysine Succinylation sites using machine learning techniques.
- Supervised by *Dr.Md Sohel Rahman*, Professor, CSE, BUET.

## Multivariate Stock Price Prediction Model

June, 2018 - August, 2018

### Machine Learning Project

- Designed and deployed a RNN with LSTM model for predicting stock price trends of *Dhaka Stock Exchange (DSE)*. The model was trained on market information since January, 2016 to June, 2018, captured from (DSE) website.
- Required Skills: *Python, Keras, Tensorflow*

## School Education Manager

August 2016 - December 2016

### Information System Design & Web Development Project

- Developed a web based *School Information System* designed after the academic system of *Engineering University School & College, Dhaka*.
- Required Skills: *Java, JavaScript, JSP, HTML5, CSS, Bootstrap, Oracle DBMS*

## PROFESSIONAL EXPERIENCE

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### Eastern University

January 2019 - May 2019

#### Lecturer

- Instructed 2 theory class and 3 sessional class equivalent to 10.5 credit hours per week in total.
- Prepared lectures, demos, question papers for the classes and examined answer scripts. Supervised projects of 40 students.

## TECHNICAL STRENGTHS

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### Programming Languages

Python, R, C/C++, Java, JavaScript, SQL, Assembly

### Web Development

HTML, CSS

### Applications

Git, Oracle 11g

### Frameworks

Spring MVC, Spring Boot, Tensorflow

## VOLUNTEER EXPERIENCE

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### CSE Fest'18 - Technical and Cultural Festival

May, 2018

#### Student Coordinator

Dept. of CSE, BUET

- Coordinated a 2-tier team of 40 people to successfully conduct professional competitions, exhibitions and programs.
- Successfully organized over 10 events including *Inter University Programming Contest & Hackathon* together for the first time in CSE Festival, BUET.

### Student Association of Mymensingh(SAM), BUET

October, 2017 - October, 2018

#### Vice President

- Coordinated over 200 active members, enthusiastic volunteers and Alumni for an year with successfully organizing annual events.

## REFERENCE

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Available upon request