JOYANTA BASAK

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CAREER OBJECTIVE

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

- **Protein Functions & Structure**
- **Phylogenetic tree**
- **Machine Learning**
- **Stochastic Optimization**

ACADEMIC BACKGROUND

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

- 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

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

- Worked in a team of five people and came up with a model of predicting *Dhaka Stock Exchange* price trends.
- 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

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

Programming Languages	Python, C/C++, Java, JavaScript, R, SQL, Assembly
Web Development	HTML, CSS
Applications	Git, Oracle 11g
Frameworks	Spring MVC, Spring Boot, Tensorflow

VOLUNTEER EXPERIENCE

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

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

REFERENCE

Available upon request