

# ANANNA BISWAS

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## SUMMARY OF QUALIFICATIONS

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- Possess an indomitable will for learning new thoughts and ideas.
- Expertise in communication, presentation and technical writing skills.
- Experienced in organizing and team building.

## EDUCATION

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### B.Sc. in Electronics and Communication Engineering

April 2015 - February 2019

Khulna University of Engineering and Technology, Khulna.

- CGPA: 3.31/4.00
- Last Semester GPA: 3.50/4.00

## WORK EXPERIENCE

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### ▪ Research Engineer @ Advanced Intelligent Multidisciplinary Systems Lab (AIMS Lab), UIU, Dhaka.

September 2021 – March 2022

- Worked on a Neuromarketing project to predict consumer response (preference, purchase intention, & attention) to the marketing stimuli through machine learning models using EEG signals and eye-tracker.

### ▪ Research Assistant @ brainekt.com (Computer Software Company).

August 2019 – August 2021

- Writing research articles.
- Conducted research on Projects:
  - Wheelchair patient monitoring problem using EEG signals.
  - Anomaly detection of ECG signal by dot Residual LSTM Network.
- Working on the collaboration among independent researchers.

### ▪ Operator @ Fab Lab, KUET.

February 2018 – February 2019

- Organized workshop on “Laser Cutting & Engraving”.
- Organized workshop on “cutting Edge Fabrication Facilities”.
- <https://www2.kuet.ac.bd/fablab/operators-2018/>

## PUBLICATIONS

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- Ananna Biswas, Fazla Rabbi Mashrur, Khandoker Mahmudur Rahman, Mohammad Tohidul Islam Miya, Farhana Sarker, Khondaker A. Mamun. **An Overview of Neuromarketing Research in Developing Countries: Prospects and Challenges**, 2nd International Conference on Computing Advancements (ICCA) (2022). <https://dl.acm.org/doi/abs/10.1145/3542954.3542977>
- Ananna Biswas, Zabir Al Nazi, Tasnim Azad Abir, **Invasive Ductal Carcinoma Detection by A Gated Recurrent Unit Network with Self Attention**, International Conference on Electrical Information and Communication Technology (EICT) (2019) <https://ieeexplore.ieee.org/abstract/document/9068841>

- Zabir Al Nazi, **Ananna Biswas**, Md. Abu Rayhan, Tasnim Azad Abir, **Classification of ECG Signals by dot Residual LSTM Network with data augmentation for anomaly detection**, International Conference on Computer and Information Technology (ICIT) (2019) <https://ieeexplore.ieee.org/abstract/document/9038287>

## SKILLS

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- Fields: Machine Learning, Signal Processing, Computer Vision, Image Processing, Deep Learning
- Languages: Python, MATLAB, HTML, CSS, C++, C
- Operating Systems: Windows, Ubuntu, Linux
- Framework/ Tools: Keras, tensor flow, scikit-learn, OpenCV, Pandas, Jupyter Notebook, Code Blocks, EEGLAB
- Paper writing: Latex
- Data Analysis and Presentation: SQL, MS Excel, MS Word, MS Power Point
- IDEs: Jupyter Notebook, Spyder, Code Blocks

## ONLINE COURSES AND TRAINING

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- NMA Computational Neuroscience by neuromatch academy
  - Intro to Modeling
  - Machine learning
  - Dynamic Systems
  - Stochastic Process
- The BCI & Neurotechnology Spring School 2022 by g.tec medical engineering GmbH.
- Ada Lovelace DATATHON 2021 by HERWILL and BdOSN:
  - Descriptive Analysis
  - Feature Engineering
  - Machine learning Models
  - Validation and Evaluation
- Introduction to Python (**datacamp**)
- Intermediate Python (**datacamp**)
- Neural Networks and Deep Learning by deeplearning.ai (**Coursera**).
- Improving Deep Neural Networks: Hyper parameter Tuning, Regularization and Optimization by deeplearning.ai (**Coursera**).
- Fight Against COVID-19 Pandemic Using Machine Learning 2020 by IEEE CS BDC.
- Git for Developers Using GitHub by Coursera Project Network (Coursera).
- Speak English Professionally: In Person, online & On the Phone by Georgia Institute of Technology (**Coursera**).

## UNDERGRADUATE COURSES

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- Data Structure & Algorithms, Database System, Internet Programming, C Programming, Object Oriented Programming.
- Digital Image Processing, Digital Signal Processing.
- Numerical Analysis, Information Theory
- Computer Networks.

## VOLUNTEER EXPERIENCE

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- Publication Secretary @ **MEC, KUET**. April 2018 – April 2019
- Treasurer @ KUET Career Club (**KCC, KUET**). March 2018 – March 2019
- IT executive @ KUET Unit Face of **ESAB (Engineering Students Association of Bangladesh)**. July 2017 – July 2019

## REFERENCES

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- ❖ **Dr. A. B. M. Aowlad Hossain**, Professor(ECE) @ Khulna University of Engineering & Technology (KUET)  
Email: aowlad0403@ece.kuet.ac.bd
- ❖ **Dr. Md. Faruque Hossain**, Professor(ECE) @ Khulna University of Engineering & Technology (KUET)  
Email: fhossain97@yahoo.com