ANANNA BISWAS

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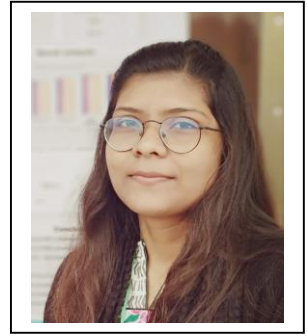
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SUMMARY OF QUALIFICATIONS

- 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

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

- **Research Engineer @ Advanced Intelligent Multidisciplinary Systems Lab (AIMS Lab), UIU, Dhaka.**   September 2021 – March 2022

  - Working 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/

PUBsLICATIONS

- An Overview of Neuromarketing Research in Developing Countries: Prospects and Challenges**, 2nd International Conference on Computing Advancements (ICCA) (2022)** (1st author)

- Invasive Ductal Carcinoma Detection by A Gated Recurrent Unit Network with Self Attention, **International Conference on Electrical Information and Communication Technology (EICT) (2019)** (1st author).
  https://ieeexplore.ieee.org/abstract/document/9068841
- Classification of ECG Signals by dot Residual LSTM Network with data augmentation for anomaly detection, **International Conference on Computer and Information Technology (ICCIT) (2019)** (2nd author).
  https://ieeexplore.ieee.org/abstract/document/9038287

SKILLS

- Fields: Machine Learning, Signal Processing, Computer Vision, Image Processing, , Deep Learning
- Languages: Python, C++, C, MATLAB, HTML, CSS
- Operating Systems: Windows, Ubuntu, Linux
- Framework/ Tools: Keras, tensor flow, scikit-learn, OpenCV, Pandas, Jupyter Notebook, Code Blocks
- 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

- 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

- Fight Against COVID-19 Pandemic Using Machine Learning 2020 by IEEE CS BDC.
- Neural Networks and Deep Learning by deeplearning.ai (**Coursera**).
- 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

- 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

- 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

- ❖ **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