BOKTIAR AHMED BAPPY

DATA SCIENTIST

DETAILS

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Dhaka, Bangladesh

ONLINE PROFILE

- Linkedin
- Github
- Youtube
- Google Scholar
- ResearchGate

SKILLS

- Python 3
- Web scraping
- Machine Learning
- Deep Learning
- Natural Language Processing
- **Hardware-**
  - -Raspberry Pi 3
  - -Arduino
- **OS-**
  - -Ubuntu
  - -Windows 10
- AIOps/MLOps
- DVC
- MLflow
- Git
- Docker
- Kubernetes
- **Frameworks-**
  - -Tensorflow
  - -PyTorch
  - -OpenCV
  - -Keras
  - -Flask
- **Databases-**
  - -MySQL
  - -MongoDB
- **Cloud-**
  - -AWS
  - -Azure
- Robotics

PROFILE

Data Scientist and lecturer with 2.6 years of working experience in Machine Learning, Deep Learning, Microcontrollers, and Electronics systems. Hands-on experience in classification, regression, clustering, computer vision, natural language processing, and transfer learning models to solve challenging business problems.

EMPLOYMENT HISTORY

Jr. Data Scientist

iNeuron Intelligence Pvt. Ltd. | Jan 6th 2022 - Present

- Managing & developing various research projects in the field of **Machine learning, Deep learning, Computer Vision & NLP**
- Mentoring students & job professionals in **Data Science** career transition
- Content creation based on the latest research papers and technology.
- Collaborating with the development team to build some products

Jr. Machine Learning Engineer

Japan-Bangladesh Robotics and Advanced Technology Research Center - JBRATRC | Feb 14th 2020 - Jan 2nd 2022

- Mentoring and managing projects & ideas
- Contributed & improved the efficiency of a smart irrigation system using a **deep neural network**
- Data understanding & building model
- Instructor & lecturer for **Data Science & Python**

PROJECTS

Attendance System Using Facial Recognition | Feb 2022 -March 2022| (Github)

- Automated the end-to-end process of attendance of the employee in the company using **Deep NN (Computer Vision) and MongoDB** database, reducing 4 hours of manual attendees working time per day.
- Created a desktop application using **Tkinter & Python** for employees so that they could interact easily
- Used **MTCNN** for detecting the face & **Arcface** for extracting face embedding & recognization
- Can reduce the workload by 50%

ImageSeeker: An Auto Image Classification Library | Sep 2021 - Oct 2021 (Github) (PyPi)

- **ImageSeeker** reduces developer time of writing too much code for any image classification task so that they focus on the parts of the problem that really matter
- Created a **Python package** & hosted on **Pypi** so that people can easily install by **pip package manager**
- Used **Tensorflow**, **Keras** in the backend of the library
- **Keras** adopts the principle of progressive disclosure of complexity: simple workflows should be quick and easy that's why **ImageSeeker** is Flexible

Wafer Fault Detection using Machine Learning | Jan 2022 - March 2022 (Github)

- Build a classification methodology to predict the quality of wafer sensors based on **590 sensor** data.
- We used two kinds of classification methods to classify fault: one is the boosting classifier (**XGBoost**), and the other is a bagging method (**Randomforest**)
- **KMeans** algorithm is used to create clusters in the preprocessed data. The optimum number of clusters is selected by plotting the **elbow** plot. The idea behind **clustering** is to implement different algorithms

Books Recommender System Collaborative Filtering | Dec 2021 - Jan 2022 (Github)

- People are always short on time with the myriad tasks, **recommendation systems** are important as they help them make the right choices in a short time
- Build a **collaborative filtering-based** recommender system using the **clustering** method **Nearest Neighbour**
- Applied **cosine similarity** to figure out the same kinds of users & their interests

EDUCATION

Diploma in Electronics Engineering

Jhenaidah Polytechnic Institute | 2017 - 2021
CGPA: 3.65 out of 4.00

Secondary School Certificate (SSC)

Bheramara Pilot Model High School | 2015 - 2017
Group: Science
GPA: 4.50 out of 5.00

RESEARCH & PUBLICATION

- **Development of Multiple Combined Regression Methods for Rainfall Measurement |** Dec 2021 (Paper)

AWARDS

- **APICTA**-The Asia Pacific ICT Alliance (MERIT Award winner 2021) in **Malaysia** | (Link)
- **ICT Award**- 2020 from Senior Student Category in **Bangladesh** | (Link)

CERTIFICATIONS

- **Elements of AI**
- **Machine Learning Masters**
- **Deep Learning Masters**
- **AIOps/MLOps**

ONLINE LECTURES

- **Basic NLP to End-to-end Pipeline | Community Live Session at Omdena Sri Lanka Chapter |** 2nd July 2022 (Lecture Link)