

Soumen Sarker

Dhaka, Bangladesh



[Mail](#)



[LinkedIn](#)



[GitHub](#)



CAREER OBJECTIVE

Dedicated to finding solutions to problems, passionate about software engineering, machine learning, and data science.

Working in a collaborative setting with experts in my areas of interest will help me advance my professional career.

EXPERIENCE

- Working with research teams in the domain of computer visions, medical image analysis
- Data Science, Machine Learning, and Deep Learning (NLP, Computer Vision) projects
- Kaggle Competitions
- Problem Solving, OOP

EDUCATION

- Islamic University, Kushtia, Bangladesh *B.Sc. in ICT*
CGPA: 3.52 out of 4.0 March 2016 – September 2021
- Govt. Azizul Haque College, Bogura: 5800 *HSC, Science group*

PUBLICATIONS & PROJECTS

Publication:

Title: WhyMyFace: A Novel Approach to Recognize Facial Expressions Using CNN and Data Augmentations
[Conference Paper](#)

Deep learning projects:

i. Final Year Project:

- A Sentiment Classification model by comparing naive Bayes, DNN, RNN, and LSTM classification models.
- Automatic Text Summarization with Transformer Architecture.

Key aspects:

TF-IDF, stem/lemmatize, tokenization, vector embedding, n-gram, NMT, seq2seq, attention, gradient descent, rmsProp, transformer architecture!

[Link](#)

- ii. Built and Deployed an NLP application that reveals named entities, classifies sentiment, and does text summarization using spacy, textblob, genism, streamlit and heroku.

[Link](#)

iii. Image Classification/Browser based model to classify Rock/Paper/Scissors

Browser-based model, node.js, training with and without transfer learning, evaluating, alerting on browser!

- Model created with Tensorflow Keras in python
- Convert the Keras model into JSON format using the Tensorflow.js converter

[Link](#)

iv. Built and deployed a CV application that detects faces, smiles, and eyes, do enhance as well as filters like cartoonish. [App link](#)

Machine Learning & Data Science Projects:

i. House Price Prediction

- Feature Engineering and Selection
- Model building
- Creating an ML pipeline
- In-house software using Scikit-learn API(OOP, Inheritance, Transformers, Pipeline) and recreating an optimized pipeline(python environment)
- Packaging the model for production(requirements files, tox, pyproject.toml)
- Serving and deploying the model via REST API(Fast API, HTML, Uvicorn web server, Heroku)

[APP Link](#)

TECHNICAL SKILLS

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- | | | | |
|--------------|----------------|--------------|----------------|
| • C | Structures | • Tensorflow | • Scikit-Learn |
| • C++ | • Machine | • Pytorch | • SQL |
| • Python | Learning | • Computer | • Scipy |
| • Javascript | • Deep | Vision | • Numpy |
| • OOP | Learning | • NLP | • Pandas |
| • Data | • Data Science | • Git | |

COURSES & CERTIFICATES

- DeepLearning.AI TensorFlow Developer -[Coursera](#)
- Deep Learning Specialization – [Coursera](#)
- Machine Learning – [Coursera](#)
- Algorithmic Toolbox by UCSanDiego-[Coursera](#)

References:

Dr. Bikash Chandra Singh, Ph.D. (Italy)
Chairman, Dept of ICT, Islamic University
Phone: +8801722225799
Email: bikashsing18@yahoo.com

Shibazi Biswas

Senior Machine Learning Engineer, Cefalo BD
shivazi.biswas22@gmail.com

LANGUAGE PROFICIENCIES

Bangla: native language

English: fluent (speaking, reading, writing)

