

# MD. GAZURUDDIN

Machine Learning Engineer, Researcher

📍 House-35, Road-16, Nikunja –2, Dhaka-1229, Bangladesh.

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in [md-gazuruddin](#)

📄 [stackOverflow](#)

k [kaggle](#)



## Work Experience:

10<sup>th</sup> Jan 2021 – Dec 2021

: **Research Assistance(contractual)**

North South University,

Bashundhara, Dhaka 1229

## Summery:

Proficient in predictive modelling, data processing, and data mining algorithms to solve challenging business problems. Strong background in Python, having knowledge on Computer Vision, NLP and various types of machine-learning techniques along with ability to take complex problems and break them down into manageable parts. Have Efficiency about Linux and Oracle Database System.

## Publications:

❖ Mohammad Minhazul Alam, Md Gazuruddin, Nahian Ahmed, Abdul Motaleb, Masud Rana, Romman Riyadh Shishir, Sabrina Yeasmin & Rashedur M. Rahman. [Classification of Deep-SAT Images under Label Noise](#). Taylor & Francis, 2021.

## Key Project(s): (🌐 Source Code: [github.com/Dev-Gaju](https://github.com/Dev-Gaju))

- ❖ **AI Chatbot with User Interface:** I make a chatbot where user can ask any question regarding related topic and bot will give answer. In case bot don't know the answer of user question then it transfer the conversation to the helpline with whole chat history of Bot & user. ([Link](#))
- ❖ **Melanoma Detection using Adversarial Network with Transfer learning:** Class imbalance dataset, apply generative model Cycle-Gan to produce more data to fixed Imbalance. Fine tune pre-trained models like VGG-16, ResNet, Efficient-Net for classification then compare several loss functions with label noise. ([Link](#))
- ❖ **Olympic Data Analysis and Visualization:** Analysis on Olympic dataset, find out the ratio about country and Player Likewise at which age athlete can do better in which category and so on and **website on Live**. ([Link](#))
- ❖ **Image Caption Generator with Glove and Inception Block.** In a simple dataset with text, after pre-processing I apply Inception in Image and features extraction using Glove embedding. ([Link](#))
- ❖ **Movie Recommendation System and Convert into Website:** Fetch around ten thousand data from TMDB website using API and make context-based recommendation system and convert into a website. ([Link](#))
- ❖ **Find Developer-Best for your Project:** Using Django, on this repository I have make a website where we can search on the name of developer and check their details, expertise area and ratings. ([Link](#))

## Research Interest(s):

- Artificial Intelligence, Deep Learning, Computer Vision
- Graph Neural Network & Deep Learning on Medical Sector
- Satellite Image or Geographical Sector using Deep Learning

## Skill Profile:

LANGUAGE	C, Python, R(basic), JavaScript, HTML, PHP (basic), CSS, Vue.js (basic)
LIBRARIES	PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV
ANALYSIS LIBRARIES	Pandas,PySpark, Plotly, Bokeh, Seaborn, Tableau
DATABASE	Microsoft SQL Server, Oracle
FRAMEWORK	Django, Flask, Laravel
IDE & TOOLS	PyCharm, Visual Studio Code, Spyder, MS SQL Server,
PLATFORM	Kaggle(3x Expert)
PROJECT MANAGEMENT TOOL	Trello, Slack
OTHERS	Streamlit, RestApi, Beautifulsoup, Linux, Postman, MS Excel

## Academic Qualification(s):

Degree	Name of Institution	Passing Year	GPA
MS in CSE	North South University, Dhaka, Bangladesh	Courses completed	<b>3.63</b> out of 4
BSc (Hons) in CSE	Daffodil International University, Dhaka, Bangladesh	2019	<b>3.23</b> out of 4
HSC (Science)	Rohanpur Yusuf Ali Govt College	2014	<b>4.00</b> out of 5

## Thesis:

- Facial Expression Recognition Using Deep Learning (Undergraduate)
- Water Body Segmentation and differentiate between loss function on satellite data (graduate thesis ongoing)

## Extra Curriculum:

- Volunteered in Various programs in College and University.
- Attended Various Seminar and Program (Competitive Program, Google Dev Fest, Coder Trust)
- Took Part in Project Fair in my University.
- Organized Event on Our University (3<sup>rd</sup> Year Celebration with All department)

## Reference(s):

### Minhazul Alam

Assistant Professor

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### Aminul Haque, PhD

Assistant Professor and Associate Head |

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