

LAMIMA TABASSUM AVA

Machine Learning Engineer & Researcher

@ lamima7777@gmail.com 8801790507520 in LinkedIn Profile
Github Profile

EXPERIENCE 1+ (INDUSTRIAL) 2+ (RESEARCH) YEARS

Machine Learning Engineer

Nifty Coders PVT LTD

January 2024-Present (Full-time)
Banani, Dhaka, BD (On-site)

- Proficient in making strategic decisions that align with the best interests of both clients and the organization.
- Developed Model and deploy them

Lead Machine Learning Engineer

Devolved AI

September 2023 – November 2023 (Full-time)
Uttara, Dhaka, BD (On-site)
Head Office :California, USA

- Proficiently managed and led cross-functional teams, fostering a collaborative and results-driven work environment.
- Proficient in making strategic decisions that align with the best interests of both clients and the organization.
- Assessed individual team member performance and contributions.
- Proficiently execute the deployment of LUNA 1.0 chatbot across two distinct operational modes.
- Luna Reward Mode:
https://huggingface.co/Lamimad/luna-reward-0.0.1
- Luna Standard Mode:
https://huggingface.co/Lamimad/luna-standard-0.0.1

Machine Learning Engineer

Anchorblock Technology

August 2022 – August 2023 (Full-time)
Banani-11,Dhaka,BD (on-site)
Head Office:30N Gould St,82801, USA

- Finix bot- Proficiently extracted pertinent user information from unstructured text data and adeptly identified transaction types, showcasing advanced skills in natural language processing and machine learning. Demonstrated expertise in data analysis and modeling. Try live demo
- BankGPT- Proficient in comprehensively addressing all aspects of banking information of Saudia Arabia, demonstrating a deep understanding of financial data and analytics.
- Scraping bot- Proficient in developing advanced web scraping solutions to extract news articles from Google based on user-provided links. Gathering experience in Data Scraping with Selenium.

PUBLICATIONS

Intelligent Identification of Hate Speeches to address the increased rate of Individual Mental Degeneration
HCist 2022 (Accepted in Elsevier)

A Comprehensive Study on Transfer Learning with BERT for Improved Detection of Hate Speech in Video Contents
PlosOne-2022

From Frames to Phrases: A Novel Hybrid Model for Bengali Video Captioning
IEEE Transactions2023

TECHNICAL SKILLS

- Programming Language: Python, JavaScript, C++
- Framework: Tensorflow, RASA, PyTorch, Keras, Opencv, Scikit-learn, theano, Langchain, Qlora.
- Backend: Fastapi, mySQL, Postman
- System Administration: Notepad++, Slack
- Development Operation: Docker, Git, Kubernetes, AWS
- Iaas & Paas Services- Heroku
- OS – Linux, Windows,macOS

SKILLS RATINGS

Python	<div><div></div><div></div><div></div><div></div><div></div></div>
Tensorflow	<div><div></div><div></div><div></div><div></div><div></div></div>
LLM & Conversational AI	<div><div></div><div></div><div></div><div></div><div></div></div>
Docker	<div><div></div><div></div><div></div><div></div><div></div></div>
AWS	<div><div></div><div></div><div></div><div></div><div></div></div>

- BANGLA Grammar Checker bot(Banglabritti)- Generate suggestions for incorrect Bengali texts. It was implemented with the RASA framework. The bot can easily detect the correct and incorrect Bengali texts. Updated version implemented by using transformers, BERT, LLMS.
Try baglabritti
- AnchorBook- Accounting book for tracking your daily transactions.Implemented it with RASA framework. Collecting data, preprocessing and Building the model. After that integrate the model with Docker and Fastapi.Updated version implemented with LLM. AnchorBook
- Medibot- Medical chatbot implemented and tested with different LLMS.
See Medibot-Click here

AI Engineer (Lead)

Intelligent Dive

July 2023 - December 2023 (Part-time)

Dhaka, Bangladesh

- Detecting fruits in real-time videos- Detected ripe mangoes from the videos. Experienced in Computer vision.
- Banking AI conversational Bot- Provide all kinds of banking information integrated with Langchain and LLMS.
- Support and create technical feasibility studies for new product concepts and convert them to system-defined variant codes.
- Creation and maintenance of Project Time-plan, budgets, and follow-up project GATEs as per time-to-time plan.
- Identify, collect& deliver techno-commercial feasibility study of potential cost reduction ideas to program manager
- Handling the team and clients and building strong communication with international clients.

Researcher and Senior Lab Member

The VRD Lab

Sept 2021 – Present(Part-time)

Khulna, Bangladesh

- Professionally spearheaded the development of a cutting-edge hate speech detection system for video content, leveraging the power of BERTCNN architecture.
- Created protein sequences through the utilization of Graph Neural Networks (GNN), demonstrating expertise and leadership in cutting-edge research.
- Bangla Nameplates Detection and Recognition- This project was for detecting nameplates and recognizing Bengali characters of the Nameplates.
- Bird Spices Identification from videos.
- Generated Captions from the Videos. Create our own Bangla dataset that contains 10k Bengali contextual images and captions.

EDUCATION

BSc Engg in Computer Science and Engineering (Major in AI),

Bangladesh University of Business and Technology, (Feb 2018-July 2022)

EXTRA-CURRICULAR ACTIVITIES:

Participated in Robotics Contest

2018

Participated in BUBT Programming Contest

2018

Participated in Cyber Security camp as a trainer

2021

Participated in Robi Data hackathon 2.0

2022

Participated in Women in Machine Learning Symposium 2023

2023

PERSONAL PROJECTS

Accounting Master bot

Bhasha-Shodhok

Bangla captions generator

BankGPT

LAMMI

Human Intelligence bot

BitMinder

Human Diabetics prediction (CNN-LSTM)

OVER-ALL EXPERIENCE

