

Contact

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Top Skills

Large Language Models (LLM)
ONNX
Docker

Languages

Bangla
English

Saiful Islam

Senior NLP Engineer @ Hishab
Mirpur, Dhaka, Bangladesh

Summary

Hi, Greetings! Thank you for reviewing my profile.

This is Saiful, an Innovative Artificial Intelligence Engineer with 6+ years of experience in application design, development, testing, and deployment. Highly experienced in writing codes and algorithms as well as building complex neural networks through Python programming languages.

Possess an unbridled passion for Artificial Intelligence with comprehensive knowledge of machine learning concepts and other related technologies. Unmatched abilities to identify, understand and translate program requirements into sustainable, advanced AI-based solutions using different tools and other programs for continuous improvement of AI technologies.

Commercial project development experience in ASR, LLM, TTS, Conversational AI Chatbot, RASA, Layout Document Understanding, Multilingual OCR and Data extraction, Screen text detection, Table Structure Recognition, Extracting human activity from video data, Face recognition, pose estimation, Semantics Textual Similarity, BERT, Transformer and Vision Transformer, etc.

Have hands-on ML algorithm design with CNN, RNN, GRU, LSTM, CRNN, GAN, Autoencoder, and so on. To generate those models I extracted data from different sources wikis, and websites as well as scanned PDF or editable PDF using web scrapping, PDF extraction, and entity extraction methods or approach.

And also have hands-on working with, Django or Flask web developemnt, pdf parser algorithms pymupdf, pdfminer, pdfplumber, tabular, selenium, beautiful soup, request etc.

ML framework I have experience with - Keras, Tensorflow, PyTorch, Numpy, SciPy, Scikit-Learn, OpenCV, Matplotlib, Pandas, maxnet.

I would like to take a challenging job. I strongly believe that, a problem means new opportunities to learn. I am hardworking, honest and dedicated to my responsibilities.

Thank you

Experience

Hishab

Senior NLP Engineer

May 2024 - Present (5 months)

Gulshan 2, House 4A, Rd 96, Dhaka 1212

- Working With cutting-edge technology LLM, ASR, TTS.
- GCP, MLOPS, docker, docker-compose, nginx, caching, Kubernetes, onnx, Triton server

Genuity Systems Ltd.

Senior Software Engineer(AI)

August 2023 - April 2024 (9 months)

Dhaka, Bangladesh

- NLP(NER, Q&A, Entity Linking, LLM)
- Conversational AI(Rasa, Chatbot)
- ASR(Auto Speech Recognition), VAD(Voice Activity Detection), OSD(overlapped speech detection), SCD(Speaker Change Detection), CNT(instantaneous speaker counting)
- TTS(Text to Speech)
- Docker & Docker Compose

Next Solution Lab

3 years 5 months

Tech Lead(Associate)

May 2022 - July 2023 (1 year 3 months)

Dhaka, Bangladesh

- Lead an AI team to research and develop the highest potential model for the product.
- Design the AI product architecture pipeline for development and deployment.
- Developed Machine learning-based OCR/ICR solutions according to the business requirements.
- Research Bangla Speech Recognition as well as speech translation.

- Developed API endpoint AI solution and containerized the solutions for the infrastructure team.
- Research and implement state-of-the-art models for business requirement purposes

AI Engineer

May 2021 - May 2022 (1 year 1 month)

Dhaka, Bangladesh

- Developed document sequence classification model for document entity extraction and Entity linking.
- Worked with multiple lingual OCR-based solutions.
- Research and develop transformers-based developed Non-English Language model for fine-tuning text classification, question answering, text summarizing, and topic modeling.

AI Engineer(Associate)

March 2020 - May 2021 (1 year 3 months)

Dhaka, Bangladesh

- Developed data augmentation pipeline to improve document understanding model performance.
- Developed Screen text detection model for document text detection.
- Research and implement state-of-the-art models for entity extraction and text classifications.
- Developed automatic data processing, the data conversion method.
- Developed machine learning-based text classification solutions according to business requirements.
- Conduct different R&D for Computer Vision and NLP-based paper implementation and product feature improvements.

Semantics Lab

2 years 11 months

AI Researcher & Developer

March 2018 - February 2020 (2 years)

Bangladesh

Worked as a Researcher and Developer at Semantics Lab to solve the state-of-the-art problem of designing and building an AI predictive model. And Also worked on AI-based product development and deployment team.

1. Anomaly detection with GAN

2. Character recognition for OCR system
3. Object detection and classification
4. Semantic segmentation
5. Human identification using face recognition
6. Semantics textual similarity
7. Human activity recognition using pose estimate

Uses Tool and Technologie:

TensorFlow, Keras, Pytorch Numpy, OpenCV, Scikit-Learn, Matplotlib, Pandas, NLTK, Gensim

AI Researcher and Developer intern

April 2017 - February 2018 (11 months)

Rangpur, Bangladesh

As a Researcher and Developer at Semantics Lab, Solving the state-of-the-art problem using an advanced level ML algorithm with Deep learning and designing the predictable model.

The main role in semantics lab, research paper reading, understanding and implementing with advanced technology and tools.

- Deep Learning
- Tensorflow
- Keras
- Pytorch
- Maxnet
- OpenCV
- pandas

Education

Begum Rokeya University, Rangpur, Bangladesh

Bachelor's degree, Computer Science & Engineering · (2013 - 2018)

Sundergonj DW degree College

HSC, Science · (2010 - 2012)

Fazlul haque high school

ssc, science · (2005 - 2010)