Tanjina Piash Proma
Machine Learning Engineer

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WORK EXPERIENCE

Research Associate
Independent University, Bangladesh

01/2019 - 02/2022   *Agency Lab*

Achievements:

- National Medicine Image Database creation funded by the ICT Division, Government of the People's republic of Bangladesh.
- Face recognition for biometric security solutions.
- Analysis of CERN's very large particle data using machine learning.
- Video captioning with NLP (Attention Network building from video feature streams).

Research Assistant
Independent University, Bangladesh

01/2016 - 12/2018   *CSE Department*

Achievements:

- Representing Team IUB Attendant as AI Lead in University Rover Challenge 2018 held in Utah, USA.
- Autonomous rover navigation using GPS and vision-based path planning.
- Path generation, update, and modification of rover maneuver map and onboard camera depended object detection in real life terrain in MDRS, Utah, USA.
- Pill detection using intrinsic geometric shape, color, and text from pill images.
- Raspberry Pi Controlled Image Processing Based Line Follower.

R&D Engineer
Bitec Software

10/2017 - 06/2018

Tasks:

- Machine Learning algorithm implementation analysis.
- Proposal writing, scope, objective analysis, documentation, and presentation in the Prime Minister's Office of Bangladesh.
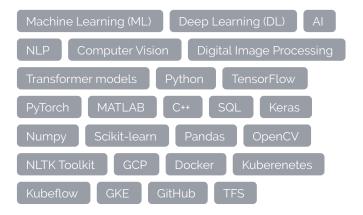
EDUCATION

BSc in Computer Science
Independent University, Bangladesh

2013 - 2017   *Dhaka, Bangladesh*

SKILLS

Machine Learning (ML) · Deep Learning (DL) · AI · NLP · Computer Vision · Digital Image Processing · Transformer models · Python · TensorFlow · PyTorch · MATLAB · C++ · SQL · Keras · Numpy · Scikit-learn · Pandas · OpenCV · NLTK Toolkit · GCP · Docker · Kuberenetes · Kubeflow · GKE · GitHub · TFS

PUBLICATIONS

Medicine Recognition from Colors and Text
International Conference on Graphics and Signal Processing (ICGSP 2019)

Autonomous Rover Navigation using GPS Based Path Planning
Asia Modelling Symposium 2017 (AMS2017)

Vision Based Trajectory Following Robot along with Swarm Robotics
3rd International Conference on Control, Automation and Robotics (ICCAR 2017)

Medicine Recognition Using Intrinsic Geometric Property from Pill Image
Pacific Rim International Conference on Artificial Intelligence (PRICAI 2016).

COURSERA CERTIFICATIONS

- Deep Learning Specialization
- Natural language Processing Specialization
- Machine Learning in Production (MLOps)
- DeepLearning.AI TensorFlow Developer Professional Certificate
- Data Engineering, Big Data, and Machine Learning on GCP Specialization