Hasan Tanvir Iqbal

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EDUCATION

Islamic University of Technology (IUT) 2017 – 2022

BSc in Computer Science and Engineering CGPA 3.5/4.00

- Thesis: RGB to Depth Translation with Conditional GANs
- Obtained OIC scholarship
- Worked at IUT SSL Lab (Supervisor: Prof. Dr. Kamrul Hasan)

THESIS RESEARCH

Morshed, Mashrur Mahmud; **Iqbal, Hasan Tanvir**; Rishad, Mazharul Islam, **'Image to Image Translation With Multi- Scale Generator'** [Link to research work]

WORK EXPERIENCE

Bkash Ltd.

ML Engineer, Data Science, Data Science and Engineering April 2021 - Present

- Research to solve business problems with ML based approach or statistical approach based on problem statement.
- Develop end-to-end solution from research that can used by suitable users.
- Find out business insight from data that help business team improve their service.
- Maintain ML pipelines through airflow and serve prediction.
- Inspect and evaluate performance of existing ML projects through MLflow.
- Work in a collaborative environment with data engineer and non-technical stakeholders to ensure smooth and efficient product delivery.

TECHNICAL SKILLS

Language

- Python, C++, Scala, R, SQL

Software & Frameworks

- Git, Pytorch, Tensorflow
- HDFS, Apache Spark
- Neo4j, Scylla, Postgres
- AWS, Google Cloud

RECENT WORKS

DocAI

DocAI is a real-time document verifying system that varifies and extractes document data for registration platform in both English and Bengali language. The core model is based on pre-trained Donut model. The model is further trained on real data and synthetic data for the specific document layout. The process has also been repeated for training the existing model on Bengali language. Finally, it had achieved 96% accuracy on test set. The synthetic data was produced using SynthDog and DocSim. Then the model is served with Nvidia-Triton that ensured 10 TPS service quality and maximum GPU utilization.

SlipStream

Developed a real-time solution for identifying Devices for curtailing fraudulent behavior. Two different parts of this solution. One part is batched process that calculates risk score based on bi-weekly user behaviour. The other part is a real-time system that track device change and takes precautionary measures based on risk score. It is implemented with C++ and is based on this publication.

Usage Forecasting
Developed Forecasting model for inferring peak usage in Holiday Seasons. Also predict location wise service usage which is used as business metrics and anomaly detection.

Info Assistant
Its a personal project inspired by this work that can assist you as an information aggregator. Best works with private information unknown to open internet. A memory less assistant perfect for those sort of private information.

LINGUISTIC SKILLS

- **English (C1)**
- **Bangla(Native)**

ACHIEVEMENTS

1. **ACM-ICPC preliminary round**
2. **Google Foobar Challenge (2nd round)**
3. **Kaggle competition participation**
4. **Dhaka AI competition (2nd round)**

FURTHER CONTACT INFORMATION

1. **Github: github.com/TanvirHundredOne**
2. **LinkedIn: www.linkedin.com/in/tanvir-adittya-a20bba160**