Koushik Ahmed Kushal

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EDUCATION AND HONORS

American International University Bangladesh

- BSc in Computer Science (CSSE) *2020-May*
- Relevant Coursework: Machine Learning, Data Science Statistics, Big Data Analytics, Probability & Discrete Mathematics

The Duke of Edinburgh's International Award

- Bronze for DofE programme (**Bronze**)

PROFESSIONAL EXPERIENCE

Infosys Limited, Bengaluru, India
Data Science & Machine Learning Analyst, *June 2019 - Sept 2019*

- Utilized Python to implement unsupervised machine learning techniques for server and security logs on unstructured data, which clustered system activities, patterns, and operations.
- Processed 3.2Million samples of event log (security, audit, system) for analysis, which prevents risks through tracking (hacks, Unwanted login) failure audits and building a prolific system trend for the network.

Amal Foundation
Data Analyst & Backend Python Developer, *June 2020 - Nov 2021*

- Proactively liaised with the design team and senior developer to enhance the efficiency and performance of the client site.
- Develop tools and keep superintends web trends on server and database. Analysis data on top of RFM criteria which is based on spending and fund stat and employer trends.

Upwork *Jan 2022*
Machine Learning Engineer

- *Enhancing machine learning ideas to* lead a project that concerns fitness interests, dietary preferences, and fitness goals that enables you to find your best fit (Ideal ones) in a fitness platform with a single click.

SKILLS

- **Programming Languages:** Python, Java, C, C++, C#, JavaScript, HTML, CSS, SQL,BigQuery
- **Big Data & Machine Learning:** Spark, PySpark, Hadoop, Tensorflow, Keras, Scikit-learn, Numpy, Pandas, Matplotlib, Flask,Scipy, Seaborn,Selenium,NLTK, OpenCV,
- **Data Science & Miscellaneous Technologies:** A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Chatbot development, Time series, Hypothesis testing, IBM Watson, GCP, OOP

RESEARCH & DEVELOPMENT

Underwater Object Detection and Localization (Computer Vision) *2018-Aug*

- It is challenging to produce an efficient object detection model with high precision and low processing time, there were many different networks have experimented with the traditional algorithm development process like HOG, CNN, SVM, and R-CNN.
- Proposed YOLO-Lite model with Spatial Pyramid Pooling (SPP) vision-based execution through CPU achieved The precision of 75.80% with 9 fps. 128X128 dim on top of YOLO v3-tiny architecture with 93(fps) with 80.69% precision

Automate Documnet text -detection and extraction (human level) *2022-*

- Trained millions of data points, and further refined each use case. Thus, our ML models achieve much higher quality and generalize across challenging document types.
- Technologies - Efficient-Det, Yolov4 for detection, OCR engine to process and extract data with customized image processing.