(+88) 01949486542 Dhaka, Bangladesh tasfiq.kamran@gmail.com

TASFIQ KAMRAN

Data Scientist / ML Engineer

Portfolio: tasfiq-k.github.io GitHub LinkedIn Leetcode Kaggle

Aspiring Data Scientist and Machine Learning enthusiast dedicated to continuous learning and professional growth. Passionate about solving complex challenges in generating models in Computer Vision and RAG based system in Natural Language Processing (NLP). Aim to leverage advanced analytical skills and innovative mindset to create impactful solutions that benefit both the company and society as a whole.

EXPERIENCE

Junior Machine Learning Engineer

October 2024 — Present

1101

Omdena Inc.

- Collaborating with 50+ ML and Data Engineers from 15+ countries to predict Soil Nutrients from data collected from different regions of Bangladesh
- The project aims to recommend fertilizers based on the predicted micro nutrients
- Working on designing feature engineering pipelines that capture key soil characteristics through EDA and developing AI
 models to provide nutrient predictions

TA (Data Science) June 2024 — Present

MasterCourse BD

Dhaka, Bangladesh

- Assisting the course instructor
- Engaging with students to identify and solve problems

Machine Learning Engineer

Innovative Skills BD

December 2023 — May 2024

Dhaka, Bangladesh

- Developed a face recognition system with state of the art DL algorithms to achieve high accuracy and adaptability in real time system
- · Conducting workshops for DS fundamentals like numpy, pandas as a course instructor

SKILLS

Programming Languages & Sql Python, MySQL, PostgreSQL Web Scraping Python, MySQL, PostgreSQL BeautifulSoup, Selenium, Scrapy

Data Analysis & Visualization Numpy, Pandas, Matplotlib, Seaborn, Tableau

Machine Learning Tools Tensorflow, Keras, Pytorch, Sklearn, Scipy, OpenCV, Fastai, Huggingface

Version Controlling Systems Git, Github, Dagshub

Operating Systems Linux (Ubuntu, Mint), Windows 10/11

Miscellaneous Jupyter Notebook, Anaconda, Google Colab, VS code, Intellij IDEA IDE

Leadership, Teamwork, Time management, Communication, Critical thinking

Quick learner, Problem Solver, Presentation

PROJECTS

Soft Skill

Benagli Book Recommendation System (Github)

Tools & Skills: Python, Scrapy, Pandas, GoogleTranslator API, Deep translator, Lang detect, Gensim, Fasttext

- Developing an end-to-end recommendation system that provides personalized suggestions for Bengali books.
- 300K+ book data scraped from the Rokomari website, involving extensive preprocessing to structure and clean the data for effective model training
- The preprocessing pipeline included custom handling of features such as author, title, and genre, along with a **refined search** strategy to improve recommendation accuracy
- Worked on different models (**Gensim**, **Fasttext**) to examine their ability to generate relevant results based on specific titles, genres, or authors

Multi-label Text Classifier with Integrated Transcriber and Summarizer(Github) (App)

Tools & Skills: Python, Selenium, Pandas, Fast ai, Hugging Face transformer, Blurr, Flask, Onnx, Git

- A multi-label text classifier that transcribes video/audio, classifies, summarizes and extracts important topics
- Can be used for summarizing and extracting topics from videos, audios or long text
- Fine-tuned distilroberta-base, achieved 0.42 F1 score (Micro), used faster-whisper for transcribing video/audio, compressed a 317 MB model to 80 MB using ONNX
- Deployed using Flask, Onrender and Hugging Face spaces

Image Based Body Measurement Estimation

Tools & Skills: Python, Pytorch, Pandas, Matplotlib, OpenCV, Dagshub

- Implementation of Body Measurement model following the paper Human Body Measurement Estimation with Adversarial Augmentation
- The output model outputs 14 different body measurement from silhouette images of a person

Amazon Data Science Books Analysis (Github) (Tableau Dashboard)

Tools & Skills: Python, Selenium, Geckodriver api, Tableau public, Git

- · A data visualization project on book data scraped from Amazon using python and selenium
- Scraped 1300+ data science books from Amazon.
- Preprocessing and data manipulation done with Python and visualization report generated with Tableau.

Bangladesh Property Data Analysis (Github) (App)

Tools & Skills: Python, Numpy, Pandas, Scikit-learn, Regression algorithms (Linear regression, Decision Tree Regressor, Random Forest regressor)

- · Analyzing and training different regression models on one of the biggest property data of Bangladesh
- Reduced MAE 5800 to 5600 and serialized the best model using joblib
- Built a user-friend app using Stremlit

EDUCATION

BSc (Engineering) in Electrical & Electronic Engineering

April 2017 — November 2022

Hajee Mohammad Danesh Science & Technology University

ACTIVITIES

Into the Computer Vision - Classify, Segment, Detect & Generate Organized by: Innovative Skills BD (Completed as one of the top performer)