MD. TASFIQ KAMRAN

Data Scientist | Machine Learning Engineer | Electrical & Electronic Engineer

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Career Objective

As a recent University graduate with a passion for data science and analysis, I'm now looking for an internship opportunity or an entry-level data scientist, analyst, or machine learning engineer role in a dynamic organization where I can use my abilities to support the development of data-driven solutions. My objectives are to get relevant experience in a professional setting and to keep learning and developing in the area of data science. I'm committed to leveraging my skills to support the company's development while also making a significant contribution to society, and I'm keen to learn new things.

Experience

- Engineer Hut *(Machine Learning Engineer Intern)* (September 2023 – Present)
- Mastercourse *(Data Scientist Trainee)* (April 2023 – Present)

Projects

Multi-label text classifier with integrated transcriber and summarizer (NLP project) github |App

- Transcribes video/audio, classifies, summarizes and extracts important topics
- Can be used for summarizing and extracting topics from videos, audios or long text
- Deployed on onrender and Hugging Face spaces

Multi-label text classifier (NLP project) github | App

- Collected 34k+ data through web-scraping
- Fine-tuned a Hugging Face Transformer model
- Inference and model compression using ONNX
- Deployed on render using Flask and on Hugging Face spaces

Amazon data science books analysis github | Tableau Dashboard

- Scraping book information from amazon
- Analyzing and visualizing the data
- Used selenium to scrape the data and Tableau desktop for visualizing
- Publishing dashboard in Tableau public

Chicken breed recognizer github | App

- Used Fastai and resnet34 as the pre-trained model
- Collecting, training, and cleaning using the Fastai
- Achieved ~94% accuracy
- Deployed in Hugging Face spaces, and github pages

Bangladesh property data analysis github | App

- Analyzing and visualizing one of the biggest property data of Bangladesh
- Finding key aspects that affects the price
- Training various machine learning regression models

Diabetic retinopathy classification from fundus images using Convolution Neural Network (CNN) (Academic thesis)

- Used APTOS 2019 blindness detection dataset from kaggle
- Implementing different image pre-processing techniques (Gaussian blur, CLAHE etc.)
- Designed a simple 5 layer CNN model
- Achieving 96% test accuracy

Identification and analysis of risk factors of lower back pain using machine learning approaches (Academic thesis)

- Worked with a very small dataset containing only 310 observations
- Analyzing the risk factors that causes back pain
- Applying feature selection techniques
- Achieving 95% accuracy

Skills

Machine Learning

- **Programming Language**: Python
- **Framework/Library**: Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV, Tensorflow, Keras, Pytorch, Fastai, HuggingFace Transformer
- **Deep Learning Models**: CNN, ResNet, U-net, PSPnet

Web Scraping

- **Library**: BeautifulSoup, Selenium

Web Development

- **Programming Language:** Python
- **Framework:** Flask

Database Management

- **SQL**: MySQL

Other Tools

- **Dashboard:** Tableau
- **Version Control**: Git/Github
- **OS**: Linux, Windows 10/11
- **IDE**: Jupyter notebook, Google Colaboratory, VS code, Intellij IDEA IDE
- **Soft Skills**: Leadership, Teamwork, Time management, Communication, Desire to learn, Quick learner, Decision making, Problem solving, Critical thinking, Analytical thinking, Presentation

Languages Bangla (Native), English (Proficient)

Education

Hajee Mohammad Danesh Science & Technology University — Dinajpur, Bangladesh

BSc (Engineering) in Electrical & Electronic Engineering — 2017 – 2021

CGPA: 3.26 / 4.00

University Laboratory College — Dhaka, Bangladesh

Higher Secondary Certificate (HSC), Science — 2013 – 2015

GPA: 4.75 / 5.00

Professional Development

- Deep Learning with Computer Vision– Innovative Skills BD (*August 2023 - Present*)
- Data Science Basic Program – Mastercourse (2023)
  - Learned the workflow and lifecycle of data science
- Neural Networks and Deep Learning – Coursera (2021) | Certification
  - Learned fundamentals of deep learning and neural networks
- Mathematics for Machine Learning – Coursera (2020) | Certification
  - Learned math fundamentals behind machine learning

Extra-Curricular Activities

- Participated at **National Robotic Festival** (NRF) **– 2018, NSU** as team **Onneshok**. Category: Line Following Robot (LFR)
- Participated at **Maker Fair 2019, HSTU** (Organized by IEEE HSTU SB)**.** Category: Remote Controlled Robot

Interests

Working with AI and robotics, Reading Books, Photography, Travelling, Cooking, Games