



Aklima Akter Rimi

Data Scientist

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in Aklima Akter Rimi  Aklima Akter Rimi

ABOUT ME

Experienced data scientist proficient in ML, DL, and software engineering with a passion for driving innovation and delivering business insights seeking to contribute value to a company.

EDUCATION

Computer Science and Engineering, Uttara University 2018 – 2021
CGPA: 3.92

SKILLS

Programming Languages (Python, Java, C++, HTML, CSS, JS)


Data Science (Basic Statistics, Machine Learning, Deep Learning, Data Visualization, Data Cleaning, Structure Modeling.)

Database (MySQL)

FrameWork (Selenium, Pytorch, Fastai, Tensorflow, Pandas, Matplotlib, Seaborn, Scikit, HuggingFace, StreamLit, Gradio)

WORK EXPERIENCE

Zoah Ltd., Data Scientist (Remote) 12/2022 – present
Contributed to data collection, analysis, model implementation, evaluation, and API development for seamless integration and efficient deployment of models.

Manaknight Digital LTD, Data Scientist (Remote)  07/2022 – 08/2022
Worked on OpenCV and deep learning techniques for the detection and recognition of electronic parts such as electrical boards and integrated circuits. Performed image labeling, augmentation, and utilized deep learning models for training and evolution.

WORK AND PROJECT

Relax-Teacher

Libraries: Moviepy, pytube, pytorch, HuggingFace, Flask

Problem Statement: This project is NLP based, where convert video into text, summarize it, and classify the text.

Description: The data is collected from YouTube, and the video is converted into audio. Then the audio is transcribed into text, and the text is summarized and classified based on the subject of the class. The project is deployed using HuggingFace and is also integrated into a website.

Reptile-Museum

Libraries: Selenium, Pandas, PIL, Pytorch, Fastai, HuggingFace, Flask

Problem Statement: The objective of this project is multi-target classification where the user must upload an image of any reptile, and the application will generate eight pieces of information about the reptile, including its name, scientific name, species, color, habitat, diet, and location.

Description: The images are collected and augmented, and data loaders are built. The appropriate model and metrics are selected, and the project is deployed using HuggingFace. An app is created using Flask, and text-to-speech conversion is also implemented.

AppClassifier

Libraries: Selenium, Pandas, Fastai, HuggingFace, Flask

Problem statement: Classify App description using Multil-label classification using Pytorch

Description: A massive amount of data is collected, preprocessed, and analyzed using Pandas and Seaborn. The project is deployed using HuggingFace and a Flask-based app.

InsectRecognizer [↗](#)

Libraries: Selenium, PIL, Pytorch, Fastai, HuggingFace, Github

Problem statement: Recognize the top 13 harmful insects on crops using Fastai

Description: Image data is collected from Google, and data augmentation and preparation are performed in dataloaders. Several models are used, and the best one is selected. The project is deployed using HuggingFace, and an app is built on the Github platform.

Product Review Classifier [↗](#)

Libraries: Selenium, Pandas, Fastai, HuggingFace, Flask.

Problem statement: Classify reviews using as Positive and Negative.

Description: The data is collected from Amazon, preprocessed, and analyzed using Pandas and Seaborn. The project is deployed using HuggingFace and a Flask-based app.

EyeDiseaseClassifier [↗](#)

Libraries: Kaggle, PIL, Pytorch, Fastai, HuggingFace, Github

Problem statement: Recognize 4 types of eye diseases using Fastai

Description: Image data is collected from Kaggle, and data augmentation and preparation are performed in dataloaders. Several models are used, and the best one is selected. The project is deployed using HuggingFace, and an app is built on the Github platform.

CSRanked Universities CSE Department. [↗](#)

Libraries: Selenium, Actionchains, Pandas, Tableau

Problem statement: Data collection from a well-known website

Description: I used the Selenium library to collect numerous data points. Data cleaning and preprocessing are performed using Pandas, and data analysis is done using the Tableau platform.

QS World Rank Universities, Life and Science Department [↗](#)

Libraries: Selenium, Actionchains, Pandas, Tableau

Problem statement: Data collection from a well-known website using the Selenium library

Description: The goal of this project is to collect data from a well-known website using the Selenium library. Deployed in Tableau

Research, Title: Face Mask Detection using Deep Learning

Supervisor: Al Shahriar Rubel, Lecturer, Dept of CSE, Uttara University

Libraries: Python, Tensorflow, Keras, Scikit.

- Data were collected from Github. It is an ideal face mask dataset being used by many researchers.
- Image augmented
- For image recognition, the video-based YOLOv3 model is transformed into a sequential CNN model.
- LeakyRelu for the Activation function in Hidding Layers, BatchNormalization and Dense Layers were used to modify this YOLOv3 to prevent overfitting the model.

AWARDS

Dean Award

4 Dean Awards

Programming Contest, Ada Lovelace Girls' Progammig Contest [↗](#)

22th position

Intra-Programming Contest 2020, Uttara University

3rd position

Intra-Math Olympiad, Uttara University

2nd position

REFERENCES

Dr. Md. Mizanur Rahman, Chairman, Uttara University
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