Md Kamrus Samad

Dhaka, Bangladesh

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EXPERIENCE

1. Trainee Data Scientist | *MasterCourse* **Nov, 2022 – Feb, 2023**

- The MasterCourse is an online training platform where I received training in Data Science and Analytics, including web scraping, data preprocessing, model training, and deployment on open-source platforms. I also gained practical experience by working on data science projects.

Skill: Selenium, Pandas, Tableau, Pytorch, Matplotlib, OpenCV etc.

2. Software Engineer | *MySoft Ltd.* **Nov, 2022 – Present**

- MySoft Ltd. works for the American company Beraten Software Solution. They specialized in creating software for tribal organizations. My role there is as a Full Stack Web Developer, responsible for managing stored procedures, creating new pages in the back-end, and primarily fixing bugs.

Skill: .NET Core, C#, SQL, MSSQL, Razor Pages, Kendo UI

TECHNICAL SKILLS

Languages: Python, Java, C, C++, C#, Dart
Database: SQL, MSSQL, My SQL, Firebase
OS Tools: Windows, Linux
Libraries and Frameworks: Transformers, PyTorch, TensorFlow, Keras, scikit-learn, Pandas, Matplotlib, Selenium, Tableau, OpenCV, Flutter, Django, .NET
Technologies: Git, GitHub, BitBucket, Trello

EDUCATION

North South University **Jan, 2018 – May, 2022**
*Graduate - **CGPA** - **2.71 (82 percent)*** *Dhaka, Bangladesh*

ACADEMIC RESEARCH

1. Training Pruned Language Model ↗ | *Senior Design and Directed Research* **Sep, 2021**

- It is a collaborative NLP research. It's still under processing. And we assume that after we finish our research, we will be able to present a Language model that is significantly greener, resource-saving, and comparatively smaller.

2. A new task for Bengali Language Classification ↗ | *NLP* **Jan, 2022**

- It is also a collaborative NLP research. And it's also under processing. We assume that after we finish our work, we will be able to to present a new classification task for Bengali Language. And hopefully, we will present a dataset and comparison among some acknowledged models.

PROJECTS

1. Multilabel IMDb Movie Classification ↗ | MasterCourse **Feb, 2023**

- This is a text classification project where I classify the genre of movies based on their IMDb descriptions. I fine-tuned a pre-trained model, DistilRoberta-Base. After cleaning and encoding the data, I trained the model and achieved an accuracy of 88.5% and an F1 score (micro) of 56%. I saved the model and made it more usable by converting it to the ONNX format, which also made the model faster. For deployment, I built a Flask web application that is hosted on a Render server, allowing users to easily classify the genre of a movie based on its description.

2. Object-Recognizer-for-autonomous-vehicle ↗ | MasterCourse **Jan, 2023**

- This project, named "Object Recognizer for Autonomous Vehicles," is a machine learning model that is trained to recognize and classify various objects that can be found on the road. The model was trained using the FastAI library, and PyTorch as the deep learning framework. The model utilizes a ResNet34 architecture and was trained on a dataset of 3000 images of 15 different types of objects commonly found on the road.

3. Real fake face detection (DFD) ↗ | DEEP LEARNING **May, 2021**

- It was a very basic deep learning project created by myself. Basically, the goal was building a Convolutional Neural Networks (CNN) for image classification. So it was a deep fake detection project and the dataset was collected from Kaggle.

4. Faculty Reviewer ⧉ | JUNIOR DESIGN
<div align="right">May, 2021</div>

- It was a windows application. The idea of this application was making NSU faculty member's profile based on student review. NSU is an open credit hour course system university so every semester student needs to search their faculty who is appropriate for him and his course. So, in this app student can rate and comment about teacher based on their experience which makes easier to find the faculty.
- **This application also has an** <u>Android Version</u> ⧉

5. Document Digitization ⧉ | SOFTWARE ENGINEERING
<div align="right">Jan, 2021</div>

- It was a web application. The idea of this application was to automate the document of any organization. Document storing, sharing, reading, searching was the key work of that application. **OCR search for documentation was one of the key goals of implementation**.

CERTIFICATIONS

- Introduction to Tensorflow - Coursera
- Crash Course on Python - Coursera
- Python Functions, Files, and Dictionaries - Coursera
- Python Classes and Inheritance - Coursera

COURSEWORK

- Data Structures
- OOPS concept
- Algorithms
- Deep learning
- Natural Language Processing (NLP)
- Software Engineering
- Advance Database System

Volunteer Experience

NSU ACM Student Chapter
<div align="right">Feb, 2020 – Jan, 2021</div>

General Member - Team Provision
<div align="right">*Dhaka, Bangladesh*</div>

Art & Photography Club - *NSUAPC*
<div align="right">May, 2018 – Jan, 2019</div>

General Member
<div align="right">*Dhaka, Bangladesh*</div>

References

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