MD KAMRUS SAMAD

Dhaka, Bangladesh

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PROFILE

Software Engineer with an aspiration of gaining diversified knowledge with a view to expanding my skills through professional and personal experiences. I believe that I am good enough at communication, problem-solving, critical thinking, and team management and continuously trying to adapt to upcoming changes.

EXPERIENCE

1. Software Engineer | *Beraten Software Corporation*   **Nov-07, 2022 – Present**

- Assembled software solutions tailored for tribal organizations, specializing in ASP.NET Core Razor Pages, MSSQL Server, and Telerik Kendo UI.
- Demonstrated proficiency in managing stored procedures, ensuring efficient data processing and retrieval.
- Built new backend pages, aligning development tasks with client requirements and project specifications.
- Solved bugs and issues promptly, enhancing the overall performance and functionality of the software.
- Engaged in the complete software development life cycle, from understanding client needs to translating requirements into functional code.
- Utilized tools such as ASP.NET Core Razor Pages, MSSQL Server, Telerik Kendo UI, and other relevant technologies to meet project objectives.
- Maintained a proactive approach to stay along with industry trends and emerging technologies, incorporating them into the development process for continuous improvement.

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

2. Trainee Data Scientist | *MasterCourse*

I participated in the MasterCourse, an online training program specializing in Data Science and Analytics. Throughout this period, I gained valuable skills and experience in various aspects of data science, including web scraping, data preprocessing, model training, and deployment on open-source platforms. Additionally, I worked on practical projects, refining my abilities in fine-tuning models and training them from scratch.

- Developed proficiency in essential tools such as NLP, Matplotlib, OpenCV, Selenium, Python, NumPy, Pandas, Tableau, and PyTorch.
- Acquired hands-on experience through project work, enhancing my understanding of data science principles.
- Explored topics like web scraping, data preprocessing, and model deployment, building a strong foundation in the field.

Skill: NLP, Matplotlib, OpenCV, Selenium, Python, Numpy, Pandas, Tableau, Pytorch, etc.

ACADEMIC RESEARCH

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

Developed "BnBERT ipet pruned," a novel language model achieving state-of-the-art performance in resource-constrained Bengali NLP tasks. The model, with just 10% of the edges of the initial BERT, demonstrated comparable results to leading models like Bangla Electra and Indic-Bert. Through iterative pattern-exploiting training and 90% sparsity using Lottery Ticket hypothesis pruning, our approach significantly reduced memory footprint and training time, offering a compelling alternative for efficient language processing in Bengali.

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

It is also a collaborative NLP research. We have presented a new classification task for Bengali Language. We have created a dataset and comparison among some acknowledged models. The task was to classify the Bengali languages into three categories.

EDUCATION

North South University   **Jan, 2018 – May, 2022**
Graduate - BS in CSE **(with 82% mark)**   *Dhaka, Bangladesh*

PROJECTS

3. Faculty Reviewer ↗ | JUNIOR DESIGN   **May, 2021**
- It was a Windows application. The idea of this application was to make NSU faculty member's profiles based on student reviews. NSU is an open credit hour course system university so every semester student needs to search their faculty who is appropriate for them and their course. So, in this app, students can rate and comment about teachers based on their experience which makes it easier to find the faculty.
- **This application also has an** <u>Android Version</u> ↗
  Technologies: C#, SQL, Flutter

TECHNICAL SKILLS

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

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

Chapai Nawabganj Student Welfare Association of Dhaka   **06 2022 – Present**
Vice-Chairman   *Dhaka, Bangladesh*

NSU ACM Student Chapter   **Feb, 2020 – Jan, 2021**
General Member - Team Provision   *Dhaka, Bangladesh*

Art & Photography Club - *NSUAPC*   **May, 2018 – Jan, 2019**
General Member   *Dhaka, Bangladesh*

References

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