Jyotirmay Nag Setu

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○ Jyotinag   🌐 `https://jyotinag.github.io/JyotirmayNag/`

Research Interest

Self-Supervised Learning, Computer Vision, Machine Learning, Data Science, Database

Education

Jan 2010 – Mar 2012	**Narail Government High School** *Secondary School Certificate (GPA 5.00/5.00)*
Jun 2012 – Aug 2014	**Narail Government Victoria College** *Higher Secondary School Certificate (GPA 5.00/5.00)*
Jan 2015 – Jan 2019	**University of Dhaka** *BSc in Computer Science & Engineering (CGPA 3.03/4.00)*

Work Experience

May 2020 – Nov 2020	**Robi Axiata Ltd.** *Data Engineer, EDW & Analytics Team* • Maintaining the data processing pipeline. • Writing **Python** and **Shell** scripts to process raw data. • Writing PL/SQL procedures to process data in **Oracle Database**. • Using **Hadoop** to store and process big data. • Generating **SAP BO** reports from the processed data.
Nov 2020 – Ongoing	**Bangladesh Bank** *Data Engineer, R&D on Data Science Applications Wing* • Writing **Python** scripts to automate the data processing pipeline. • Writing PL/SQL procedures to process data. • Creating **Oracle Data Integrator(ODI)** mappings to process data. • Creating **Oracle Warehouse Builder(OWB)** mappings. • Developing a fully automated data processing system with Python. • Using **Oracle BI** to generate reports.

Technical Skills

- **Deep/Machine Learning Libraries:** Keras, Tensorflow, Scikit Learn, Opencv
- **Programming Languages:** Python, Java, C/C++
- **Database:** MySQL, PL/SQL, Oracle
- **Web Programming:** Python(Django), Python(Flask), PHP
- **Operating Systems:** Linux, Windows, Mac

Undergraduate Thesis

2018	M. S. Sakib, **J. N. Setu**, M. M. Islam "Multi-level Balanced Caching Approach to Optimize Repeated Subgraph Queries"

Publications

2019 | M. M. Islam, A. Debnath, T. Al Sayeed, **J. N. Setu**, M. M. Rahman, M. S. Sakib, M. M. Khan, S. Shatabda, A. Islam, "A Gray Box Interpretable Debugging Approach for Deep Sequence Learning Model,"ICLR Workshop: Debugging Machine Learning Models (Poster), 2019. *arXiv*

Volunteer Works

- Proctor, ICPC Dhaka Regional 2021

Software Projects

- **Catch the Apple: Game Project**
  The game was build using BGI graphics and C. We used the BGI header file to implement the game from scratch. In the game there was a basket to catch the randomly falling apples and termination point was how many times a player fails to catch an apple. We used predefined function of BGI graphics.
  Platform: Desktop Application
  Language: C
- **Unit Converter**
  We implemented different unit conversion feature using Object Oriented Principles (OOP). We implemented around 10 unit conversion features.
  Platform: Desktop Application
  Language: Java
- **BDRentals**
  We addressed the most common problem for most of the 1st year students and newcomer in Dhaka city, finding accommodation. Our project was to make a website using the Software Design Pattern to build a platform for those who are looking for a place and also renting their own home.
  Platform: Website
  Language: Django
- **Bangla Type Racer**
  We developed a website similar to Typeracer.com, But we implemented it for Bengali. The original website let a user practice his/her touch typing skills by providing the user with a short paragraph and recording his/her typing speed. We saved several Bengali paragraphs for the users to practice Bengali touch typing.
  Platform: Website
  Language: PHP, JavaScript, JQuery, HTML, CSS