



Prinom Mojumder

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ABOUT ME

I hold a strong academic background in **Computer Science and Engineering**, with a deep interest in advanced areas such as **Artificial Intelligence and Machine Learning**. My goal is to enhance my knowledge through cutting-edge academic research and practical application. I am also passionate about Software engineering and Android development. With a continuous drive to learn and solve real-world problems, I aim to contribute to the advancement of technology and grow as an enthusiastic lifelong learner in the field of engineering.

WORK EXPERIENCE

 **EAST WEST UNIVERSITY – DHAKA, BANGLADESH**

UNIVERSITY TEACHING ASSISTANT – 01/06/2023 – 31/05/2025

- Helping student during lab and office hour to understanding the concept
- Taking lab of CSE courses like: OOP(CSE-110), Data Structure(CSE-207), Algorithm(CSE-246)
- Technologies: C, Cpp, Java

EDUCATION AND TRAINING

01/06/2021 – 31/05/2025 Dhaka, Bangladesh

BSC IN COMPUTER SCIENCE AND ENGINEERING East West University

Final grade 3.63 out of 4.00 | **Thesis** Building a RDF Data Clustering Framework

PROJECTS

01/06/2024 – 31/05/2025

RDF Data Clustering Framework.

This project is a deliverable product of my final year **capstone project** that focuses on an applying clustering algorithm for information of entities extracted from **RDF** data. The system enhances entity search by retrieving detailed information from DBpedia and recommending related entities using clustering-based techniques.

This project involved extensive research, including:

- **Manual Knowledge Graphs vs. DBpedia-based Knowledge Graphs**
- **Embedding techniques (BERT, Word2Vec, etc.)**
- **Clustering methodologies for entity recommendations**

Link https://github.com/Prinom2000/Capstone-project-outcome_A_advanced-search-engine-with-entity-based-recommendation-system

BERT based Bangla text Classifier with XIA.

- A Bangla sentence dataset is used to classify sentences as Simple, Compound, or Complex
- Models like BanglaBERT, DistilBERT, and Multilingual BERT are trained for the classification task
- SHAP and LIME are used to explain how the models make predictions
- Among all, BanglaBERT shows the highest accuracy for Bangla sentence classification

Book Recommendation System. (Collaborative Filtering model, Content base, Hybrid, Streamlit)

- This system recommends books using collaborative filtering based on user-book rating patterns
- Baseline estimates with user and book bias are applied to handle sparse rating data
- Nearest Neighbors algorithm is used to find similar books for a given input title
- The model's performance is evaluated using precision, recall, MAP, MRR, and Spearman correlation

Nitrogen Deficiency Detection in Plants.

- Built a deep learning model to detect nitrogen deficiency in plant leaves
- Preprocessed and augmented images to improve model performance
- Trained and evaluated multiple CNN models for accurate classification
- Used Grad-CAM to visualize and explain model predictions

Big data processing for course advising. (Apache spark, Py)

- Used Apache Spark & Hadoop with Python to process large-scale student course datasets efficiently

Mobile App: EWU Alumni Association

- Using JAVA and android studio I am developing this app
- Features: SingUp-Login, Update and edit information, Student can find & contact with alumni

Event Management System. Android mobile application using Java)

- Event add & update, fix time schedule, Alarm & notification(Developing)

SKILLS

Machine Learning | Data Science | Software Development | Android App Development | Deep Learning | Digital logic | Microcontroller | Artificial Intelligence | Object-Oriented Programming

Programming Language

Java | PHP | SQL | Python | C | C++ | HTML | CSS

Database

MySQL | Oracle database

Problem Solving

Data structure | Algorithm

Tools

Git | Apache spark | Android | MS Power Bi | Oracle Apex | Visual Studio | NetBeans | AutoCAD | Neo4j | Pandas | Scikit-Learn | Numpy | PyTorch | TensorFlow

HONOURS AND AWARDS

Dean's List Scholarships – East West University

- This scholarship is awarded for achieving a CGPA of more than 3.75 for three consecutive semesters.