TONNI DAS JUI

Ph.D Student, Baylor University, Waco, TX

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I am pursuing PhD at Baylor University in Computer Science with R&D expertise in Python, Pytorch, Tensorflow, Java, and Spring

EXPERIENCE

Graduate Research Assistant

Baylor Al Lab

January 2021 - Present

Waco, TX, USA

Uses: Python, TensorFlow, PyTorch, ScikitLearn

- Graph machine learning: Implemented graph embedding with autoencoder and regularized adversarial model for n-hop neighbors to achieve a 10% improvement in link prediction, clustering, and attribute prediction accuracy.
- Quantum machine learning: Implemented quantum classifiers with quantum kernels to achieve similar accuracy on convergence for separable and non-separable datasets as traditional approaches.
- Sign language analysis with machine learning: Implemented a 3D multistage temporal convolutional network to achieve similar accuracy as Lexicostatistics for finding similarity rates between ASL, BSL, ISL, and Auslan.
- Al ethics: Implemented a mapping study method on thirty papers from IEEE, ACM, ScienceDirect, etc. to find out state-of-the-art research questions, solutions, and future direction and collected them on a literature review paper.

Lecturer

Leading University

i January 2019 - January 2021

Sylhet, Bangladesh

Used: Java, OOP, Data Structures, Design Patterns

- Object Oriented Programming: Taught students core concepts of object-oriented programming such as Inheritance, Encapsulation, Abstraction, and Polymorphism using Java Programming language, object-oriented analysis, and design, etc.
- Android application development: Supervised multiple teams of undergraduate students to develop interactive android-based applications using Java backend and HTML5 for frontend.

EDUCATION

Ph.D. in Computer Science

Baylor University

苗 Jan 2021 - Present

Waco, TX, USA

B.Sc. in Computer Science and Engineering

Brac University

May 2014 - May 2018

Dhaka, Bangladesh

☎ CGPA 3.76

ACCOMPLISHMENTS

- Solved total of 135 LeetCode problems.
- Published 2 article on SL similarity analysis with machine learning and Quantum machine learning.

SKILLS



PROJECTS

Bear Go

fithub.com/tonnidas/beargo

- Identified the use cases and designed the UML diagrams.
- Designed the REST APIs, developed the backend, implemented unit, and integration tests, and deployed the application in production.
- Used: Spring Boot, REST API, React, JPA Repository, OAuth2 authentication, UML

Hall of Fame Generator

frame https://github.com/tonnidas/HallOfFame

- Measuring similarity scores of players of the same type in different technologies developed as a Cloud Computing project.
- · Applied Bill James' concept for comparing two players' scores using the distance function.
- Used: pySpark (RDD, Python), Dask (Python, Dask Bag), MongoDB (file system, MongoDB Query Language (MQL)).

Contest Registration Service

fittps://github.com/tonnidas/Contesting

- A platform for various teams to register for programming contests maintaining constraints by the contest organizers.
- Identified use cases and entity relationships.
- Designed the REST APIs, developed the backend and implemented unit and integration tests.
- Used: Spring Boot, REST API, Hibernate

Car Tuning Service

- A platform for ordering car parts services online implementing JM and Kafka message system.
- Used: Spring Boot, REST API, JMS, Kafka, Angular