Syed Jarullah Hisham

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⦿ https://hishamcse.github.io

Profiles

⚲ hishamcse

in in/hishamcse

⊙ hishamcse

▥ Syed Jarullah Hisham

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Skills & Explorations

Language
C, C++, Java, Python, JavaScript, TypeScript

Web
React, NextJs, Sass, Bootstrap, NodeJs

DataBase
Oracle, SQL, MongoDB, Postgres, Prisma, Graphql

ML
Numpy, Pytorch, DRL, gym, unity-ml, stable-baseline3

Networking & Security
Cryptography, Open5gs, UERANSIM, 5GReplay, NS2

Certifications

React
Udemy
April 2022
⦿ certificate

NextJs
Udemy
May 2022
⦿ certificate

Deep Reinforcement Learning
Hugging Face
July 2024
⦿ certificate

Java
Udemy
April 2020
⦿ certificate

Javascript
Udemy
May 2021
⦿ certificate

Achievements

🏆 **Top Project**

Software development course project
HallSync recognized as one of the top 5 projects

🎗 **Dean's List**

2 times for academic excellence

Experience

IQVIA   July 2024 - Present
Software Development Engineer 1   Dhaka, Bangladesh
⦿ IQVIA

Currently Working as Software Development Engineer 1 at 'Data Explorer' team

ERA-InfoTech Limited   April 2023-May 2023
Virtual Intern   Paltan, Dhaka
⦿ Github Link

- Developed a project called Business Analytics Transaction Clustering
- Categorized customer narrations at the time of transactions and analyzed the behaviour of customers based on the categorization
- Used unsupervised learning algorithms and NLP

Education

Bangladesh University of Engineering & Technology   April 2019-July,2024
Computer Science and Engineering   B.Sc.
CGPA-3.82

Rajuk Uttara Model College   2011-2018
Science   SSC & HSC
GPA 5

Projects

DRL-Renegades-Game-Bots   May 2024-Present
⦿ github link

A collection of my implemented RL agents for games like Pacman, Super-Mario-bros, Montezuma, Kungfu-master, Soccer, VizDoom, Pong, SpaceInvaders, Frozenlake, Taxi, Pixelcopter and a lot more by implementing various DRL algorithms using gym, unity-ml, pygame, sb3, rl-zoo, pandagym and sample factory libraries

NeurIPS - Machine Unlearning   Dec 2023 - Feb 2024
⦿ github link

- Machine Unlearning, a field that aims to eliminate the influence of specific data points from existing models
- Addressed the challenge of removing user data from trained AI models to ensure privacy compliance. This aligns with the growing emphasis on the "right to be forgotten" in AI regulations

Robo-Chess   June 2024-August 2024
⦿ Github

Robo-Chess, a comprehensive repository dedicated to developing chess engines using a variety of **Deep Reinforcement Learning** techniques. This repository includes multiple projects, each focusing on different solutions of chess AI, from self-play imitation learning or endgame solving with deep Q-networks to Modified AlphaZero Algorithm implementation. It also adds solution to a kaggle chess competition

HallSync   Jul 2023 - Oct 2023
⦿ github link

- An advanced university hall management system with features like automated seat application management, smart meal management, advanced statistics generator, complaint management etc.
- A full demo of all the features presented here: Full demo

UniConnect   Nov 2021 - Feb 2022
⦿ github link

- An intra university social network which connects teachers and students in an organized way.
- It works based on various groups where the members can discuss various matters through posts, comments, replies and even upvote or downvote any post, comment or reply

RSA Cryptography Fx   Jul 2020
⦿ github link

- This Javafx application is a Java implementation along with Jupyter Notebook of various methods needed for the RSA Cryptography using NUMBER THEORY algorithms
- Implemented features like Random Prime Generator, Big Multiplication, String-ASCII Conversion, RSA Encryption-Decryption, RSA attacks - Common Divisor attack and Hastad attack etc.

Digital Logic Simplification Tool   Oct 2021
⦿ github link

- Digital logic tool which simplifies boolean expressions (In both SOP and POS form) and also find all PRIME IMPLICANTS, ESSENTIAL PRIME IMPLICANTS based on given minterms/ maxterms and don't cares
- Implemented using KMap and tabulation method (Quine-McCluskey Method)

Publications

5GPT: 5G Vulnerability Detection by Combining Zero-Shot Capabilities of   July 7, 2025
GPT-4 with Domain Aware Strategies Through Prompt Engineering
IEEE Transactions on Information Forensics and Security
⦿ Paper Link

Authors - Asif Shahriar, **Syed Jarullah Hisham**, K.M. Asifur Rahman, Ruhan Islam, Md. Shohrab Hossain, Ren-Hung Hwang, and Ying-Dar Lin