Irsath Azeez

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Education
- Bachelor of Science in Computer Science from CUNY-Lehman College; GPA 3.854
- Associate of Science in Computer Science from CUNY-Borough of Manhattan Community College (BMCC); GPA 3.967

Technical Skills
- Programming languages: C, C++, Python, JAVA, Assembly Language, Bash
- Web development: Java Script, HTML, PHP, CSS
- Mobile Software: XML, JAVA
- Databases: SQL, MySQL
- Data Analysis: BigQuery, Scanpy, AnnData, Pandas (Python)
- Machine Leaning: Linear Regression, Polynomial Regression, Classification, Cluster, Neural Network
- Google Cloud Computing: BigQuery, VM, Looker Studio, Stream Data Analysis, Big Data
- CodePath Cyber Security certificate (Intermediate Level)

Projects and Accomplishments
- Online sales web application using PHP, HTML, MySQL, CSS, and Java script programming languages
- CPU scheduling process simulator using Java programming language
- Created Disk Algorithm of FCFS, SCAN, CSCAN using Java language
- Used C++ programming language to create a software to help students to learn the basics of the language through multiple choice questions and selected study materials
- Created minesweeper game using Java programming language
- Created a program that solves unknowns variables in multiple linear equations using the theory of Cramer's rule using Java programming language
- Created a program that checks graph connectivity, and tree traversal technique using C++ programming language
- Created an AI project using machine deep learning with LSTM to create predictions on the next word in a paragraph or sentences as a user is typing
- Created an Android mobile software that guides students how to learn Android mobile concepts using resources and quizzes
- Data Analysis Project: Completed end-to-end data analysis on the impact of earthquakes in Turkey, employing statistical methods and data visualization tools to generate actionable insights. Developed an informative dashboard that visually represented seismic activity trends, aiding in effective decision-making for disaster preparedness and response strategies.
- Machine Learning: Analyzed large-scale payment transaction data and utilized it to train a K-NearestNeighbors (KNN) model for classifying fraudulent and non-fraudulent transactions. Achieved an accuracy of 0.99 in predicting fraudulent transactions with specific transaction data.

Work Experience
Jun 01,2023 – Aug 03,2023, Research Scholar at Columbia University SURE research program partnered with Amazon *116th and Broadway, New York, NY 10027*

- Computer science intern focused on single cell analysis of microbiome utilizing data mining, timeseries, and analyzing abundant data with machine learning (AI) techniques
- Created a system design to analyze the metagenomic data using anndata structure with Python language for my research

Aug 26, 2022 – Present, Teaching Assistant at CUNY Lehman College
250 Bedford Park Blvd W, The Bronx, NY 10468

- Computer Science Tutor for Java language (basic and advance levels), Data System Design and Analysis (Python, SQL), Data Structure, Operating System, Machine Learning.

Feb 27, 2022 – Present, Teaching assistant at CUNY Accelerated Study in Associate Programs (ASAP) at BMCC
199 Chamber Street, New York 10007

- Computer Science Tutor for C++ language: basic and advance levels.

Feb 22, 2022 – May 21, 2022, Department of Education of New York (DOE) through CUNY Tutor Corp
Jordan L. Mott middle school 270 E 167th Street, The Bronx, NY 10456

- Computer Science Tutor for high/middle school students

Honor Societies/ Extracurricular Activities

- National Society of Leadership and Success (NSLS) - CUNY BMCC Chapter Member
- PHI THETA KAPPA Honor Society - CUNY BMCC Chapter Member
- CUNY BMCC Dean's List
- CUNY Lehman College - Magna Cum Laude
- CUNY Lehman College - Dean's List (Presidential Scholar Award)
- CUNY Accelerate Study in Associate Programs (ASAP) - Student Leader
- International Air Transport Association (IATA) – Best performer in the country of Sri Lanka; Foundation, Consultant, Management Level.
- Mental health advocate through the National Council for Community Behavioral Healthcare
- HSI Battle of The Brains Competition Austin, TX – Representing CUNY Lehman College
  - Analyzed large scale data presented by the competition using Python language
- Mentor to three CUNY- Lehman College computer science students through Lehman College's Step Up Mentor Collective

Language Skills

- English
- Tamil (conversational)
- Sinhala

Click here for my GitHub repository

LinkedIn Page

Personal Webpage : https://irrino.github.io/my-website/