MUSTAFA SADIQ

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EDUCATION

Rutgers University – New Brunswick   **Jan 2020 – Jan 2022**

Bachelor of Science; Major in Computer Science; CGPA: 4.00

- Coursework: Software Methodology, Databases, Algorithms, Artificial Intelligence, Data Management for Data Science, Numerical Analysis, Principals of Programming Languages, Data 101, Statistics I and II
- School of Arts and Sciences Excellence Award for the school year 2020-2021

Middlesex County College   **Jan 2018 – Jan 2020**

Associate of Science; Major in Computer Science; CGPA: 3.57 (High Honors)

- Coursework: Introduction to Computer Science, Computer Organization and Architecture, Object-Oriented Programming, Data Structures, Introduction to Information Security
- Volunteer tutor at the Learning Center representing Phi Theta Kappa honor society for Computer Science/Math
- Foundation scholarship for school years 2018-2019 and 2019-2020

PROJECTS

Spotify filter songs   **May 2021 – May 2021**

- A Python application using Spotify Web API to filter songs which are Bollywood – Hindi in a user library
- Tackled unavailability of language metadata for tracks using artist's genres to generate results with 95% coverage

Image Colorization   **Apr 2021 – May 2021**

- Implemented K-means and Logistic Regression supervised Machine Learning algorithms in Python to color a black and white image with the goal achieved to beat the K-means agent
- Researched existing libraries and used scikit-learn to build a neural-network supervised solution

Minesweeper   **Feb 2021 – Mar 2021**

- Solved Minesweeper represented as a Python NumPy array using Constraint Satisfaction Problem
- Beat basic one-clue inference using multi-clue inference by 10% accuracy to identify mines safely at 0.25 density

Railway Booking System   **Nov 2020 – Dec 2020**

- Built a railway booking system to demonstrate a relational database using MySQL, deployed on AWS EC2 as JavaServer Pages app and MySQL server on AWS RDS and using JDBC (Java Database Connectivity)
- Showcased different aspects for Customer, Employees and Administrators, e.g., monthly sales
- Maintained a GitHub repository and led a team of four to participate and collaboratively contribute

Photo Library JavaFX/Android app   **Oct 2020 – Dec 2020**

- Built a personal photo library manager with options to add tags and search by keywords as a paired project
- Two implementations: multi-user using Java and JavaFX and single-user Android application

ASCII Chess   **Oct 2020 – Oct 2020**

- Programmed a two-player ASCII Chess emulator in Java to demonstrate object-oriented design
- Implemented valid move checking, check and checkmate identification, castling, en passant and pawn promotion

LANGUAGES AND TECHNOLOGIES

- Python, Java, SQL, R, JavaScript, HTML, CSS
- NumPy, Pandas, Android, JavaFX, FXML, Jupyter notebooks, Microsoft Excel
- English, Urdu, Hindi, Punjabi