ASHUTOSH RASTOGI

716-533-1090 | rastogi@buffalo.edu | linkedin.com/in/ashutosh-rastogi-04b172170/| github.com/Rastogi-123

EDUCATION
Master of Science: Computer Science, University at Buffalo, The State University of New York, Dec 2023.
Bachelor of Technology: Computer Science & Engineering, Gurukul Kangri University, India, August 2022.

SKILLS & TOOLS
Languages: Java, Python, R, Visual Basic, C, C++, SQL, Ardunio Programming.
APIs & Libraries: TensorFlow, Keras, OpenCV, NumPy, Scikit-Learn, Pandas, Matplotlib.
Data Management & Analytics: MSSQL, SQLite, NoSQL (Pouch/Couch).
Web Development: HTML, JavaScript.
Tools: Eclipse, Jupyter, Visual Studio, Android Studio, Gazebo, Tableau.

COMPUTER SCIENCE PROJECTS
Constructed a Covid-19 Forecasting Model using R Studios: R, Python, Tableau.
- Implemented advanced forecasting models utilizing statistical analysis and machine learning techniques (Multi-layer Perception, Long Short-Term Memory), to accurately predict the spread of disease. Aimed to establish a foundation for ongoing evaluation and maintenance of the models using data visualization tools and programming languages such as R or Python.

Designed & developed a Peer-to-Peer Ridesharing System incorporating File Sharing Model: R, Java, SQL, Network Protocols.
- Collaborated with team to design and implement a chat model capable of processing and transferring individual messages to the designated recipients within a data set. Utilized NLP techniques (Sentiment Analysis, Named Entity Recognition, Text Classification) and machine learning algorithms in R to accomplish this task.

Developed a gaming application featuring the classic Connect4 Game: Java, JavaScript, C++.
- Organized and executed a game development project using Java, applying object-oriented programming techniques and leveraging the power of Java libraries to create a compelling and enjoyable gaming experience. Tutored and guided the development process to meet project objectives.

Implemented a ROS Gazebo Robotics Project: Python, Linux, Gazebo Simulation.
- Incorporating odometry and path planning techniques to create a dynamic and accurate simulation of robotic motion. Utilized Python Language and Robot Operating System (ROS) framework in combination with the Gazebo simulation tool to design and execute the project.

Developed a Flight Delay Analysis Model: R, Tableau
- Cleaned, munged, and applied machine learning algorithms to classify and visualize results in a Tableau dashboard.
- Applying statistical and data analysis techniques to explore and understand patterns in flight delay data. Utilized R, its libraries, and data manipulation and visualization tools (dplyr, tidyr, ggplot2, plotly, Shiny) to design and execute the project.

WORK EXPERIENCE
Internshala Student Partner, Delhi, India: November 2018 – February 2019
- I leverage my technical expertise to support students in their career development. My expertise in programming languages Python, R and C++, along with my understanding of machine learning algorithms and data visualization tools, enabled me to effectively support students in their endeavors.

Project Management and Team Coordination Experience in College Event Management:
- This experience has honed my ability to effectively manage projects, collaborate with teams, and use my technical skills to solve problems and achieve objectives. These skills are highly transferable, where project management and team coordination are critical success factors.

AWARDS & INVOLVEMENT
Membership Lead, Gurukul Student Chapter, Gurukul Kangri University, August 2018 – June 2022.