RITUM SINGH

716-275-4064 | ritumsin@buffalo.edu | linkedin.com/in/ritum-singh-0947b6112| github.com/ritumsingh23

EDUCATION

Master of Science: Data Science, University at Buffalo (CGPA: 3.918), University at Buffalo, The State University of New York, February 2023

Bachelor of Technology: Electrical and Electronics Engineering (CGPA: 9.217), SRM University, India, May 2017

SKILLS & TOOLS

Languages: Python, R, MATLAB
Data Management & Analytics: MSSQL
Tools: Jupyter Notebook, scikit learn, Pandas, NumPy, Matplotlib, SQLite, Microsoft Office, PostgreSQL, TensorFlow

PROJECTS

Fraud Detection in Ethereum Transactions: October 2021 – December 2021
- Trained machine learning model with R to predict fraudulent transactions on Ethereum using ensemble techniques
- Achieved a **98% accuracy** and highest generalizability keeping sensitivity, specificity, and accuracy as assessment parameters with boosting technique

Analysis of Wild-Fires in California: October 2021 – December 2021
- Performed database normalization importing pandas and SQLite on non-normalized dataset
- Created an **interactive dashboard** to visualize effects of California Wildfires between 2013-19 based on number of incidents, annual episode frequency distribution, acres burnt and fatalities on Jupyter Notebook using Matplotlib and Folium

Probability model of likelihood of Robot catching Object: November 2021
- Developed a MATLAB function to estimate time required for robot to catch object in 2D space employing 3 strategies with variation in probability of movement of object
- Observed slight increase, decrease and drastic decrease in estimated times with increase in probability of movement of object for first (robot movement in direction of object regardless of movement of object), second (robot moves towards object only if object moves) and third (robot moves and stops with 1.5 and 1-1.5 times probability of movement of object respectively regardless of movement of object) strategies respectively

WORK EXPERIENCE

Programmer Analyst, Cognizant Technology Solutions, Kolkata, WB, India: February 2018 – July 2021
- Maintained Enterprise Resource Planning (ERP) with MS SQL on Oracle Database for a US based client under Global Financial Systems vertical
- Performed Patch Impact Analysis (PIA) on Oracle database, Incident and Request management and reporting as a L1.5 team member
- **Identified as key resource to expand ERP** scope from 1 to 5 financial applications including two cloud-based applications
- Designed 10 Business Requirement Documents (BRD) for **Automation Anywhere** and **Service Now Orchestrator** based Robotic Process Automation (RPA) and administered testing for same
- Collaborated with 6 different teams to ensure deliverables met client expectations by constantly updating current models for e-forms and RPA
- Implemented 5 new e-forms and 6 RPA and, was instrumental in upgrading 19 existing e-forms and 2 RPA logics
- Communicated to liaison with business users and client for improved user experience and satisfaction with quick incident resolution

INTERNSHIPS & OTHER EXPERIENCES

Fundraising Manager, Let's Educate Children In Need (LECIN), NOIDA, UP, India: September 2017 – May 2019
- Developed fundraising strategies such as cultural events and exhibition of festive goodies to showcase values and impact
- Created a donor network via efficient communication via emails and text
- Managed a team of volunteers to **raise close to INR 100K** through various donation campaigns

Intern, Ambit Switchgear Private Limited, NOIDA, UP, India: June 2016
- Analyzed different types and components of compact substation over 2 weeks tenure
- Updated content and design of product catalog to meet new standards; researching other product brochures and documenting product insights; refined draft, seeking feedback from director

AWARDS

- NEB Women's Day Run (10 KM) - clock time of 52:31 min – March'19
- BREVET (200 KM cycling) – completed event under 12 hours – August'16
- Chennai Trail Run Marathon (21.1 KM) – finished in 2:15 hours – September'16