Nimra Idris Siddiqui

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SUMMARY

Results-driven cross-functional data analytics leader with a proven track record in formulating analytics and automation strategies for both small and large teams and fostering collaboration and innovation to achieve organization goals. Extensive hand-on experience in Machine Learning, AI and data analytics tools including witting SQL and Python scripts, creating visually appealing user-friendly dashboards, and applying advanced analytics techniques such as machine learning, artificial intelligence and modelling and simulation to address complex business problems.

EXPERIENCE

Summer Intern | ElementOne, Piscataway, NJ **June 2023-Present**

- Designed and developed a personalized AI-powered chatbot, implementing natural language processing (NLP) techniques to enhance accuracy and responsiveness.
- Real-Time Data Integration: Designed robust data integration pipelines that connected the chatbot to real-time data sources, including APIs, databases, and streaming platforms. This allowed users to access live information directly within the chat interface.
- Testing and Validation: Conducted extensive testing, including unit tests, integration tests, and user acceptance tests, to ensure the chatbot's accuracy, responsiveness, and data accuracy.
- Collaborated closely with AMCC stakeholders to gather requirements and understand the organization's unique needs for customer management, data analysis, and communication.
- Designed a user-friendly interface that streamlined data entry, tracking, and reporting processes, improving operational efficiency.

Graduate Assistant | Department of Computer Science, Youngstown, OH **Sept 2022 – Present**

- Developed an accessible computing curriculum for students with autism spectrum disorders.
- Implemented the computing curriculum at local middle school(s) to improve the learning experience and provide inclusive access to computer science education.
- Work on “Self-Driving Car System” using C# and Unity by modifying A*algorithms to always keep autonomous vehicles within a simulated environment without spawning and re-spawning them and distribute them evenly to avoid congestion.
- https://nimrausa-public-multiple-di-multiple-diesease-prediction-tnr77l.streamlitapp.com/
  Develop a web application that predicts the likelihood of multiple diseases based on a patient's symptoms and medical history, using machine learning algorithms.

Graduate Assistant | Department of Electrical Engineering, Youngstown, OH **Jan 2022 – March 2022**

- Assisted in the Digital Circuit lab as a teaching assistant, focusing on projects involving analog devices controlled with Keil software.
- Managing all the operations and departments software (MATLAB, LogiISIM, ModelSim).

Summer Internship | University of Malaysia. **June 2019 – July 2019**

- Designed assembly and product component models using CATIA V5 design software.
- Worked in the Power Electronics and Renewable Energy Laboratory under the guidance of Professor Dr. Saad Mekhilef.
- Utilized various technologies such as CATIA V5, AutoCAD), ANSYS (Fluent), MS Office, DSP, and DSO.

SKILLS/CERTIFICATION

Certificate: Post Graduate Program in Artificial Intelligence and Machine Learning, AWS Certified Cloud Practitioner from Udemy
Analytics: Python, R, Power BI, Spotfire, Tableau, Java, HTML, SQL, Tableau, C, C++

EDUCATION

Youngstown State University
Master of Science, Computer Science **GPA: 4.0/4.0**
Aligarh Muslim University
Bachelor of Science, Electrical S **GPA: 4.0/4.0**

PUBLICATION

- **“Artificial Jellyfish Search Algorithm-Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter”.**
  https://www.mdpi.com/2079-9292/10/19/2402

- “**Performance Evaluation of Multilevel DC-AC Converter To Interface EV Battery For V2H Application.**”
  https://ieeexplore.ieee.org/document/9654685 **IEEE North America Power Symposium Texas A & M**

PROJECTS

Business intelligence to optimize costs for a restaurant.

- https://rpubs.com/aniketsingh01/restaurantBIupdated Collaborated with a cross-functional team to implement a Business Intelligence solution for a restaurant chain, with the goal of optimizing costs and improving profitability.
- Worked closely with the team to identify key performance indicators (KPIs) and data sources relevant to the restaurant industry.

Breast Cancer Classification with Neural Network:

- Worked independently to develop a deep learning model for classifying breast cancer using mammogram images.
- Designed and implemented a convolutional neural network (CNN) architecture using Python and popular deep learning libraries like Keras and TensorFlow to classify mammogram images as benign or malignant.
- Trained and fine-tuned the CNN model using transfer learning techniques and hyperparameter tuning to achieve high accuracy and generalization.