Nimra Idris Siddiqui

Email | Outlook | Cell: 330.881.2753| LinkedIn | GitHub | Personal Website

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 writing 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**

- Successfully designed and developed a personalized AI-powered chatbot akin to ChatGPT.
- Increased customer engagement and satisfaction among those with specific preferences in ethnic, and faith-related services and goods.
- Implemented advanced Natural Language Processing (NLP) techniques for enhanced chatbot accuracy and responsiveness.
- Integrated real-time data sources, offering customers live information on product availability, pricing, and promotions.
- Conducted thorough testing to ensure the chatbot's accuracy, responsiveness, and data precision.
- Collaborated with stakeholders to align chatbot functionalities with unique customer management and data needs.

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

- Implemented AI-powered algorithms, resulting in a 30% reduction in common coding errors in SPIKE Prime code, offering students immediate feedback and support. Utilizing Jupyter Notebook on the Ohio Supercomputer for efficient model training.
- Developed a machine learning-powered tool for analyzing SPIKE Prime code, leading to a notable 20% improvement in students' coding proficiency using deep learning algorithms – MobileNetV3, BERT, and XLNet – to analyze SPIKE Prime code.
- Established a scoring system that successfully assessed code quality, contributing to a 15% increase in student coding skill enhancement.
- Contributed to the "Self-Driving Car System" project, utilizing C# and Unity to modify A* algorithms. This initiative resulted in an optimized traffic flow, ensuring autonomous vehicles within the simulated environment were evenly distributed, reducing congestion.

Multiple Disease Prediction App | https://nimrausa-public-multiple-di-multiple-diesease-prediction-tnr77l.streamlitapp.com/

- Accomplished the development of a user-friendly and accurate app for predicting the risk of developing multiple diseases.
- Successfully deployed the app on Streamlit, making it accessible to users online.
- The app has garnered significant user engagement, with over **1000+ users utilizing its** features.
- Demonstrated impressive predictive accuracy:
  - Achieved 82% accuracy in predicting heart disease.
  - Attained 87% accuracy in predicting Parkinson's disease.
  - Secured 78% accuracy in predicting diabetes.

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, JS,React,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.