

Career Summary

I am passionate about IT, Data Analysis, Data Visualization, Artificial Intelligence, Machine Learning and Deep Learning. I am dedicated to continuously expanding my knowledge and adapting to the evolving tech landscape. With hands-on experience in research and software development, coupled with collaboration and management skills honed through executive-level volunteer practice, I aim to maximize productivity and drive innovation. I am eager to apply my expertise and contribute effectively to dynamic, forward-thinking teams to achieve corporate objectives.

Projects and Skills

- **Future prediction of health care sector in QLD based on public data**
 - Collecting data from various sources, extracting and combining data into scalable format
 - Analysis of data based on LGA services
 - Used Power BI and Tableau to analysis
- **Environmental Sound Classification with Deep Learning**
 - Use 8K audio files for data
 - Implemented Nural Network and Hybrid network.
 - Achieved significant accuracy on classification.
 - Advance Scope on Noise pollution management, emergency response system, wildlife conservation etc.
- **Virtual Product Recognition with ML and Computer Vision**
 - Work on 10k Product dataset with 1.4 million photos.
 - Use transfer learning to train model for the large data.
 - Improved accuracy of the model.
 - Applied unique (own modified) hyperparameter setting while training data.
 - Beneficial for E-commerce, Inventory management, Advertisement, Enhance search, Personalized shopping.
 - Learn how to handle and analysis huge data.
- **Natural Language Processing for Customer Insight Analysis and Developed a QA System for e-commerce platform**
 - Analysis given dataset (Amazon Review Dataset) to perform Text Analysis with Machine Learning.
 - Perform semantic analysis, language modeling, opinion mining and sentiment analysis
 - Used machine translations, chatbot and dialogue system techniques
 - BERT and GPT architecture and training to get the most relevant information from given questions.
 - Take user input questions and response with relevant answer based on the dataset
 - Build my own model to provide closest relevant answer
 - Used **NLTK, TextBob, Transformers** to build the system.
- **Deep learning applications on the sleep stage classification (EEG)**
 - Developed a neural network and hybrid model to get maximum accuracy compared to existing models.
 - Analysis dataset feature in time domain.
 - Handle raw data into process data for development of model.
 - Achieve significant accuracy of sleep stage classification using hybrid model.
- **Data visualization from large dataset**
 - Before visualization, it is needed to perform data cleaning and pre-processing.
 - Visualize different complex queries from single and multiple datasets.
 - Diverse plot/graph was given, task was to write the code of given plot/graph.
 - Use libraries **Pandas, Matplotlib** and **Seaborn**.
- **Developed user interface to show dataset summary.**
 - The task is to make a UI for all datasets and look a summary of any given dataset.
 - Analysis of any given dataset in a short time
 - Quantitative data preprocess (missing data, clean data and feature select) for analysis.
 - Frequency pattern of the dataset
 - Cluster analysis.
- **DoA (Depth of Anesthesia) Index Based on Machine Learning Techniques**
 - Instructed to improve the existing DoA index and perform most used machine learning algorithms.

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- Improved index of DoA
- Applied modified decision trees, support vector machines and PCA algorithms.
- Showcased developed DoA index.
- **Examining Australia's COVID-19 Mobility Trends and the Interplay with Viral Transmission and Healthcare Resource Allocation on Google Mobility Dataset.**
 - Based on Google Mobility Dataset, needs to perform my research question and explain that with analysis
 - Filtered Data set and slice relevant data field and data.
 - Store large amounts of data in **Azure** (Cloud) with **MongoDB**
 - Applied mapreduce, Hadoop and PySpark for analysis and visualization.
- **Information retrieval (IR) system using Python**
 - From online sources we need to collect 10 different articles and build a fundamental Information Retrieval (IR) system utilizing Python, with a specific focus on the **sklearn** library.
 - Text preprocessing, indexing, and ranking techniques.
 - Applied TF-IDF Scoring, Relevance Scoring and Query Function and Document Retrieval
- **Programming Language:** Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn), Power BI, Tableau, R, SQL, PHP, JavaScript

Education

- Master science in Data Science (Major: AI and ML) 2023 – 2024
 - **University of Southern Queensland**
- Bachelor of science in Computer Science and Engineering 2018 – 2022
 - **American International University - Bangladesh**

Work Experiences

- **IT Support Engineer** (Casual) Dec 2023 – Present
Axiom Technologies
 - Domain Control and Configuration on Windows Server.
 - Server Issue Troubleshooting.
 - IoT Device Troubleshooting.
 - Network Device Troubleshooting.

Award and Community Activities

- **The Student Leader Award** Nov 2024
University of Southern Queensland
- **The Student Voice Award** Nov 2024
University of Southern Queensland
- **National Leadership Forum 2024 Delegate** Aug 2024
 - Hosted by Member of Parliament Australia
 - Leadership, Servant Leadership, Interpersonal Communication
- **Committee Member Artificial Intelligence Rapid Response Group** Jul 2024 - Present
University of Southern Queensland
 - Monitoring and analyzing artificial intelligence trends
 - Develop and monitor the implementation of the University's AI plan.
 - Identifying risks and threats posed by artificial intelligence and providing recommendations.
 - Collaborating with stakeholders to develop recommendations and strategies
- **Student Representative** Mar 2024 – Nov 2024
University of Southern Queensland
 - Connection between students and school
 - Develop and implement solutions for student benefits

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- **Organizing Volunteer** Apr 2024
159th Heritage Bank Toowoomba Royal Show 2024
- **Information Booth Volunteer of 75th Toowoomba Carnival of Flowers** Sept 2024
 - Teamwork, Public communication, Crowded handling
- **Treasurer** Jul 2023 – Oct 2024
University of Southern Queensland, Student Association
 - Manage funding of events, tracking money flow, Arrange programs and handle sponsorship.
- **Dr. Anwarul Abedin's Leadership Award** March 2023
American International University-Bangladesh
 - The Leadership Award is presented to deserving students in recognition of the outstanding voluntary efforts, exemplary performance, and noteworthy achievements and contributions in the various categories of co-curricular activities.

Referees

- **Amanda Rosazza**
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