

Md Jamil Istiaq

A: Brisbane, Queensland

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Career Summary

Result-driven Data Science graduate specializing in Data Analysis, Visualization, AI, Machine Learning, and Deep Learning. With hands-on experience in research and software development, combined with leadership skills from executive-level volunteer roles, I bring a unique combination of technical expertise and collaborative skills. Committed to staying at the forefront of technological advancements, passionate about learning and adapting to emerging technologies, I am eager to contribute to dynamic teams and achieve meaningful outcomes.

Education

- Master science in Data Science (Specialization: AI & ML) 2023 – 2025
 - **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, Melbourne VIC
 - Configured and managed domain control on Windows Server platforms.
 - Troubleshoot server, network devices, and hardware issues, ensuring minimal downtime.
 - Delivered client-focused IT solutions, enhancing system efficiency and reliability.

Projects and Skills

- **UniSQ - Graduate Nurse/Midwife Job Match Web Application**
 - Developed a scalable web application using Laravel for frontend and backend.
 - Prioritized data privacy and security in real-world problem-solving
- **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**
 - Utilized 8K audio files and implemented hybrid neural networks to achieve high classification accuracy.
 - Proposed applications in noise pollution management and wildlife conservation.
- **Virtual Product Recognition with ML and Computer Vision**
 - Worked on a 10k product dataset with 1.4 million photos.
 - Improved model accuracy through transfer learning and unique model hyperparameter tuning.
 - Highlighted use cases in e-commerce, inventory management, and personalized shopping (Coles, Woolworths or super shops)
- **Natural Language Processing for Customer Insight Analysis and Developed a QA System for e-commerce platform**
 - Analyzed Amazon Review datasets for sentiment analysis and opinion mining
 - Used machine translations, chatbot and dialogue system techniques
 - Built a QA system using BERT and GPT, providing precise, context-aware responses.
 - Applied cutting-edge NLP tools like **NLTK**, **TextBlob** and **Transformers**.
- **Deep learning applications on the sleep stage classification (EEG)**
 - Developed neural network, hybrid model and got significant accuracy compared to existing models.
 - Handled the raw data into process data for development of model.
 - Achieved significant accuracy of sleep stage classification using hybrid model.
- **DoA (Depth of Anesthesia) Index Based on Machine Learning Techniques**
 - Improved index of DoA
 - Applied modified decision trees, support vector machines and PCA algorithms.

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- **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
 - Analyzed and visualized data via PySpark, MapReduce, and Hadoop, with cloud storage on Azure.
- **Information retrieval (IR) system using Python**
 - Collected 10 different articles from online sources to build a fundamental IR system utilizing Python with a focus on the sklearn library.
 - Performed text preprocessing, indexing, and ranking techniques.
 - Applied TF-IDF scoring, relevance scoring, and query-based document retrieval to ensure efficient and accurate information retrieval.
- **Technical Skills:** Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn), Power BI, Tableau, R, SQL, PHP, JavaScript, MongoDB, Git.

Awards

- **The Student Leader Award**, University of Southern Queensland Nov 2024
- **The Student Voice Award**, University of Southern Queensland Nov 2024
- **Dr. Anwarul Abedin's Leadership Award**, American International University Bangladesh Mar 2022

Leadership and Volunteering

- **Delegate, National Leadership Forum 2024** Aug 2024
 - Hosted by Member of Parliament Australia
 - Leadership, Servant Leadership, Interpersonal Communication
- **Committee Member, AI Rapid Response Group**, University of Southern Queensland Jul 2024 – Pre.
 - 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**, University of Southern Queensland Mar – Nov 24
 - Connection between students and school
 - Develop and implement solutions for student benefits
- **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

Referees

- **Amanda Rosazza**
CEO - Rosazza Media
UniSQ Leadership Development Program – Mentor
Email: amanda@amandarosazza.com
Phone: +61422854704
- **Zahirul Hoque**
Senior Lecturer (Statistics), School of Mathematics, Physics and Computing
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