

**Dr.Danish** **Jamil**

**Senior Lecturer**

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**Professional Summary:**

Ph.D. in Informatics machine learning, deep learning, and healthcare informatics. Recognized for 'Outstanding Research Contribution Award' in 2022. Published eight influential papers, including a high-impact survey on gastric cancer diagnosis. Led development of cancer care mobile apps using Python-based advanced algorithms. Award-winning researcher specializing in gastric cancer prediction with expertise in addressing class imbalance.

**Teaching Statement:**

I Danish Jamil ,a dedicated researcher with a background in machine learning and computer vision, and I am excited to apply for the Post-Doctoral Scholarship in Machine Learning and Computer Vision at Luleå University of Technology (LTU). My recent research has concentrated on leveraging advanced machine learning techniques, including deep learning models and generative algorithms, to enhance predictive accuracy and diagnostic capabilities in healthcare applications. Specifically, I have been exploring the integration of Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs) to improve cancer diagnosis, which aligns well with LTU’s focus on innovative computational techniques.

I am particularly drawn to this position due to the pioneering work conducted by Professor Elisa Barney and the Machine Learning group at LTU. The group's emphasis on applying cutting-edge techniques to visual data processing and historical document analysis resonates strongly with my research interests. I am eager to contribute to ongoing projects that involve unsupervised learning, one-shot learning, and homomorphic encryption, particularly in the context of historical document processing—a key area of research at LTU.

In my previous roles, I have demonstrated a strong ability to lead independent research while collaborating effectively with interdisciplinary teams. My experience includes developing sophisticated machine learning models, publishing high-impact research, and engaging in collaborative projects aimed at advancing the field. At LTU, I aim to act as a catalyst for research innovation, driving both independent investigations and collaborative efforts to achieve significant scientific advancements.

My goal as a postdoctoral researcher is to push the boundaries of machine learning and computer vision, contributing to high-impact projects, and actively participating in the acquisition of future research grants. I am committed to supporting LTU's mission of shaping a sustainable future through groundbreaking research and am excited about the opportunity to be a part of this dynamic research environment.

**Research Statement:**

My research is centered on advancing machine learning and computer vision methodologies to address complex problems in healthcare and historical document analysis. With a focus on deep learning and generative algorithms, my work aims to improve diagnostic accuracy and efficiency, particularly in cancer detection, and to enhance data processing capabilities for historical documents. I am drawn to the Post-Doctoral Scholarship at Luleå University of Technology (LTU) due to its emphasis on cutting-edge research in visual data representations and its alignment with my expertise and research interests.

**Research Focus**

My primary research focus is on advancing machine learning techniques to enhance the early detection and accurate diagnosis of gastric cancer. I am developing a novel hybrid machine learning model that integrates deep learning with feature selection techniques. This model aims to improve diagnostic accuracy and facilitate real-time data processing in clinical settings, ultimately enhancing patient care and diagnostic precision.

Additional Details

Model Development: I am working on a hybrid ML model that combines advanced deep learning architectures with sophisticated feature selection methods.

Application: This model is designed for integration into endoscopic systems, providing actionable insights during procedures and streamlining clinician workflows.

Objective: The goal of my research is to increase early detection rates and reduce diagnostic errors, thereby contributing to more effective treatment outcomes for gastric cancer patients.

**Research Methodology**

My approach involves a combination of theoretical exploration and practical application. I utilize state-of-the-art machine learning frameworks and tools to develop and test novel algorithms. My methodology includes:

Data Collection and Preprocessing: Gathering diverse datasets relevant to cancer diagnosis and historical documents, and applying preprocessing techniques to prepare data for model training.

Model Development and Training: Designing and implementing deep learning models, including GANs, VAEs, and other advanced architectures, to address specific research questions.

Evaluation and Validation: Assessing model performance using rigorous evaluation metrics and validation techniques to ensure robustness and generalizability.

Collaboration and Dissemination: Engaging with interdisciplinary teams and presenting findings at conferences and in peer-reviewed journals to contribute to the broader scientific community.

**Future Directions**

At LTU, I am eager to continue exploring and expanding my research in the following areas:

Enhanced Diagnostic Models: Further developing generative models to improve diagnostic accuracy and efficiency, with a focus on integrating multimodal data sources.

Historical Data Integration: Advancing techniques for integrating and analyzing diverse historical data, using novel machine learning approaches to uncover new insights.

Secure and Privacy-Preserving AI: Investigating additional applications of homomorphic encryption and other privacy-preserving technologies in machine learning, with the goal of ensuring data security without compromising research outcomes.

My research has consistently aimed at addressing pressing challenges through innovative machine learning and computer vision techniques. The opportunity to join the Machine Learning group at LTU aligns perfectly with my research goals and provides a platform to contribute to cutting-edge projects. I am enthusiastic about the potential to collaborate with leading experts and advance research that drives both scientific discovery and practical applications.

**Teaching Experience:**

**Graduate Courses**

* **SE – 6111 Software Measurement and Metrics (September-January 2024), 2023),** Sir Syed University of Engineering and Technology Karachi, Pakistan: Designed and taught a comprehensive software measurement and metrics course, fostering a data-driven approach to software development.
* **CT-589 Social Media Analysis (October-January 2024), 2023),** NED University of Engineering and Technology Karachi, Pakistan: Introduced an innovative social media analysis course, equipping students with practical skills in data analysis.

**Undergraduate Courses**

* **Computer Communication & Networks (summer, fall, and spring):** Orchestrated and led the course, infusing 15 years of lecturing experience into the curriculum.
* **Operating System (spring, fall, and summer):** Held the pivotal role of coordinator, primary lecturer, and course developer, ensuring alignment with industry best practices.
* **Database Management System (fall and spring):** Coordinated and instructed the course, actively contributing to content refinement to meet industry trends.
* **Introduction to Programming Fundamentals (spring and fall):** Led the course, tailoring content to diverse programming experience levels and contributing to ongoing curriculum development.
* **Data Communication (summer, fall, and spring):** Coordinated and led the course, enriching lectures with practical exercises and real-world case studies.
* **Data Warehouse and Data Mining (summer, fall and spring):** Coordinated, lectured, and guided students, actively incorporating advancements in data analytics and mining methodologies.

**Education:**

1. **Doctor of Philosophy (Ph.D.) - Informatics**
* Malaysia University of Science and Technology, Kuala Lumpur
* May 2019 - Nov 2023
* **Ph.D. Thesis Title: "Enhanced Machine Learning Model for Predicting Gastric Cancer"**

**Specialized Courses**:

* **Advanced Healthcare Informatics:** Conducted research on the application of advanced informatics in healthcare settings, focusing on improving diagnostic accuracy and patient outcomes. Developed a comprehensive understanding of cutting-edge technologies and methodologies used in healthcare informatics.
* **Machine Learning for Healthcare Applications:** Investigated the integration of machine learning algorithms into healthcare applications for predictive modeling and personalized medicine. Published research findings on the practical applications of machine learning in healthcare, contributing to the field's knowledge base.
* **Research Methodology:** Applied advanced research methodologies to investigate complex problems in healthcare informatics. Published research papers showcasing the rigorous methodologies employed in healthcare informatics research.

**Ph.D Thesis:**

Minimizing the incidence of cancer, particularly Gastric Cancer (GC), is a critical objective due to its low survival rates. Early diagnosis and treatment significantly improve patient outcomes. However, existing prediction models for GC often suffer from imbalanced datasets, leading to biased results. This study addresses the issue by applying three class-balancing approaches (Oversampling, Under-sampling, and a Hybrid System) to the NHS dataset and evaluating various supervised learning strategies, including Naive Bayes, Bayesian Network, Random Forest, and Decision Tree methods. The hybrid balancing method, SMOTE combined with Spread Subsample, achieves a uniform distribution of cases and promotes fair predictive models. Under 10-fold cross-validation, the Multilayer Perceptron (MLP) model demonstrates superior performance in predicting gastric cancer likelihood on both balanced and unbalanced datasets, with a sensitivity of 0.930 and a positive predictive value (PPV) of 0.932 for balanced predictions. The study further develops a decision support system using Naïve Bayes and Logistic Regression models, achieving improved prediction accuracy and confidence, particularly for high-confidence ML predictions. This study proposes a novel medical decision support system for diagnosing GC, providing reliable and cost-efficient diagnostics for healthcare professionals and researchers.

1. **Master of Science in Ethical Hacking and Computer Security**
* University of Abertay Dundee, UK, Dundee
* September 2009 - July 2011
* **Thesis Title:** Designing and Evaluating Honeypots Using Virtual Machines to Enhance System Accountability and Modernize Security.

**Specialized Courses and Research Coursework:**

* **Network and Telecommunication I:** Designed and implemented a secure network architecture for a simulated enterprise environment, addressing potential vulnerabilities. Executed penetration testing to identify and rectify weaknesses in network security configurations.
* **Network and Telecommunication II:** Spearheaded a team project to develop a comprehensive intrusion detection system, enhancing the network's resilience against cyber threats. Conducted a detailed analysis of emerging network protocols, contributing insights on their security implications.
* **Ethical Hacking I:** Successfully executed hands-on penetration testing exercises, identifying and exploiting vulnerabilities in a controlled environment. Developed a custom set of ethical hacking tools, highlighting programming skills and innovative problem solving.
* **Ethical Hacking II:** Led a group project focused on designing and implementing a secure wireless network, considering encryption protocols and access controls. Conducted a real-world penetration test for a local business, delivering actionable recommendations for security improvement.
* **Penetration Testing:** Orchestrated a penetration testing campaign on a complex network infrastructure, providing a comprehensive report with prioritized remediation strategies.
* Developed and presented a workshop on penetration testing methodologies, sharing knowledge within the academic community.
* **Issues in Ethical Hacking:** Researched and presented on current ethical hacking issues, contributing insights into emerging threats and mitigation strategies. Developed a white paper proposing ethical hacking frameworks for organizations to enhance cybersecurity practices.
* **Master Thesis:**

The researcher's project focuses on creating honeypots using virtual machines to enhance system accountability and security. By employing advanced virtualization technology, realistic honeypot environments were successfully implemented to divert and engage potential attackers. A notable achievement includes the development of a sophisticated surveillance mechanism for proactive threat identification. The researcher systematically addressed vulnerabilities in the existing system, emphasizing practical and impactful approaches to security enhancement. The refined methodology highlights the strategic use of virtual machines, emphasizing realism to effectively engage attackers, along with robust countermeasures against honeypot fingerprinting. Specific contributions encompass rigorous testing, comprehensive log analysis, and insights into honeypot performance against various attack classes. The anticipated outcomes extend beyond academia, aiming to contribute significantly to the understanding of honeypot platforms, promote virtual machine-based honeypots, and present effective real-world security countermeasures. The narrative underscores the researcher's dedication to advancing the field and highlights tangible impacts and contributions as a scientist committed to innovative solutions in network security.

1. **Bachelor of Science in Computer Engineering**
* Sir Syed University of Engineering and Technology Karachi, Karachi (Pakistan), Karachi
* January 2003 - Mar 2007
* **Bachelor's Thesis:** Design and Implementation of an Autonomous Line-Follower Robot for Navigational Applications.
* **Specialized Courses and Research Coursework:**

**•Relations Database Management System (RDBMS):** Developed a comprehensive database system for a real-world application, demonstrating proficiency in SQL and database design principles.

• **Software Engineering:** Led a team project to develop a scalable software solution, showcasing expertise in software development life cycle and collaborative problem-solving.

**• Artificial Intelligence**: Implemented machine-learning algorithms for a predictive modeling project, emphasizing practical applications of AI techniques.

• **Data Communication:** Designed and simulated a secure and efficient data communication network, showcasing expertise in network protocols and security measures.

• **Computer Security:** Executed penetration testing on a simulated network environment, identifying vulnerabilities and proposing effective security measures.

* **Bachelor Thesis:** This bachelor's thesis presents the design and implementation of an autonomous line-follower robot aimed at navigational applications. The study explores various components and algorithms essential for the robot's functionality, including sensor integration, control algorithms, and path planning strategies. Through experimentation and testing, the robot demonstrates its capability to follow predefined paths accurately and efficiently, showcasing its potential for real-world navigation tasks. The findings highlight the effectiveness of the implemented design in achieving autonomous navigation and provide insights for future enhancements and applications in robotics and automation.

**Quantified Achievements:**

* Classification of Skin Lesion Using Deep CNN (Journal of Autonomous Intelligence, 2023): Achieved a groundbreaking 15% enhancement in skin lesion diagnosis accuracy by employing advanced techniques like transfer learning on ResNet152 and data augmentation. This methodology has the potential to revolutionize healthcare outcomes and increase screening accessibility.
* **Improved Gastric Cancer Diagnosis with ML Technique (Accepted in Sept 2023):** Attained a remarkable 20% increase in gastric cancer diagnosis accuracy by addressing imbalanced data distribution challenges in a dataset of 145,787 records from NHS Liverpool hospital. This tailored machine learning approach significantly contributes to accurate gastric cancer detection.
* **High-Confidence ML Predictions for Class Imbalance in Gastric Cancer Likelihood (Journal of Advances in Information Technology, 2023):** Addresses a critical issue in ML for healthcare, enhancing gastric cancer diagnosis accuracy in imbalanced datasets.
* **Prediction Model for Gastric Cancer via Class Balancing Techniques (Int. Journal of Computer Science Network Security, 2023):** Presents a practical model for gastric cancer prediction using advanced class balancing techniques, ensuring reliability.
* **Diagnosis of Gastric Cancer Using ML Techniques: A Survey (Informatica, 2022):** Contributed a comprehensive survey, enriching the understanding of ML applications in gastric cancer diagnosis.
* **Reducing the Risk of Gastric Cancer Through Proper Nutrition – A Meta-Analysis (iJOE, 2022):** Offers valuable insights into mitigating gastric cancer risk through nutritional strategies, impacting preventive healthcare.

**Book Chapter:**

* **Diagnosis of Gastric Cancer Using ML Techniques in the Healthcare Sector (Handbook on Augmenting Telehealth Services):** Central chapter contributing to the augmentation of telehealth services, particularly in gastric cancer diagnosis.
* **Reducing the Risk of Gastric Cancer through Proper Nutrition: A Meta-Analysis (Securing Next-Generation Connected Healthcare Systems Using AI Technologies):** Chapter addressing the role of proper nutrition in reducing gastric cancer risk within the context of connected healthcare systems.

**Conference Papers:**

* **Comprehensive Survey of Techniques for Lung Cancer Prediction (ICDI-SC 2023):** Enriches the understanding of techniques for lung cancer prediction, aiding advancements in early detection.
* **Enhancing Skin Cancer Diagnosis through Deep Transfer Learning on Dermoscopic Images (ICDI-SC 2023):** Presents innovative approaches to improving skin cancer diagnosis using deep transfer learning on dermoscopic images.
* **Cancer Care Application in the Healthcare Industry: A Review (SITAM 2022 Symposium):** Offers a valuable review contributing to the understanding of cancer care applications in the healthcare industry. Diagnosis of Gastric Cancer Using ML Techniques: A Survey (ICDI-SC 2022): Survey paper providing insights into ML techniques for gastric cancer diagnosis, contributing to the academic discourse in the field.

**Peer Reviewer Contributions:**

* **Guest Editor for iJOE Special Issue (International Journal of Online and Biomedical Engineering, 2024):** Successfully proposed and accepted a special issue, showcasing leadership in identifying emerging themes at the intersection of online and biomedical engineering.
* **WorldCist'24 Program Committee Member (12th World Conference on Information Systems and Technologies, 2024):** Played an active role as a Program Committee Member, demonstrating a keen ability to shape contemporary industry trends and contribute to the selection of cutting-edge expertise.
* **Nomination for Elsevier Publishers Book Series:** Nominated for a prestigious book series proposal by Elsevier Publishers, underlining recognition for your distinctive expertise and potential contributions to advance scholarly literature.
* **ICITS'24 Scientific Committee (January 24-26, 2024):** Appointed as a member of the Scientific Committee, showcasing your responsibility for evaluating academic submissions and ensuring conference standards, underscoring your commitment to maintaining high-quality academic discourse.
* **Reviewer Certificate from IET Software (Impact Factor: 1.6):** Received a Certificate of Reviewer from IET Software, affirming your commitment to upholding exceptionally high standards in research and publications within the software domain.
* **Invited Section Editor (Specialized Journal - Ecological Risk and Security Research):** Invited to serve as the Section Editor, illustrating your recognized expertise in the specialized and critical area of ecological risk and security research.
* **Section Editor for Computer and Telecommunication Engineering (Journal's Editorial Board):** Appointed as the Section Editor, indicating your editorial leadership and responsibility within the field of computer and telecommunication engineering.
* **Reviewer for FSDM 2022 (8th International Conference on Fuzzy Systems and Data Mining):** Acknowledged with a Certificate of Reviewer for active involvement in conferences and reviews, showcasing your commitment to staying at the forefront of advancements in fuzzy systems and data mining.
* **Certificates and Participation:** Participation in Elsevier’s Voice of the Customer, Customer **Centricity Program:**

Consistently surpassing industry standards and peers, my role as a Guest Editor for the iJOE Special Issue not only demonstrated leadership in identifying emerging themes at the intersection of online and biomedical engineering but also showcased a commitment to exceeding conventional expectations. Serving as an active Program Committee Member for WorldCist'24, my adeptness in shaping contemporary industry trends and contributing to the selection of cutting-edge expertise positions me as a forefront influencer in the field. The recognition through a nomination for the prestigious Elsevier Publishers Book Series further underscores my distinctive expertise and potential contributions, establishing me as a leader dedicated to advancing scholarly literature. These accomplishments, alongside appointments to Scientific Committees and editorial leadership roles, solidify my commitment to not only meeting but surpassing the highest standards in academic discourse and publication.

Furthermore, my involvement in Elsevier's Voice of the Customer program reflects a dedication to understanding and prioritizing customer needs, showcasing a holistic approach beyond traditional academic roles.

**Research Grants**

**Project Title:** Predictive Lung Cancer Detection System: A Machine Learning Approach for Early Diagnosis

**Role:** Co-Investigator

**Funding Agency:** University of Technology and Applied Sciences, Musandam, Sultanate of Oman (External Research Funding Program)

**Amount:** 900 OMR (In Progress)

**Duration:** Feb 2024 – Jan 2025

**Description:** Collaborated on a research project aimed at developing a predictive lung cancer detection system using machine learning techniques. Contributed to the proposal development, research execution, and project management. The project received funding under the University's Internal Research Funding Program, reflecting a shared commitment to innovation and excellence in research.

**Skills and Competencies:**

**Technical Skills:** Proficient in Python, TensorFlow, Keras, and PyTorch. Experienced in developing and implementing deep learning models for computer vision tasks. Familiar with unsupervised learning techniques, one-shot learning algorithms, and homomorphic encryption.

**Research Experience:** Demonstrated expertise in conducting independent research, with a strong track record of peer-reviewed publications. Experience in analyzing visual data and applying advanced machine learning techniques to real-world problems.

**Collaboration and Communication:** Proven ability to work effectively in multidisciplinary teams and contribute to international research projects. Excellent communication skills, with experience presenting research findings at conferences and writing detailed research papers.

**Adaptability and Innovation:** Adept at tackling complex research challenges and developing innovative solutions. Strong problem-solving skills and a proactive approach to research and project management.

These skills and experiences position me well to contribute effectively to the Machine Learning group at LTU and to the specific research objectives outlined in the job description. I am eager to bring my expertise and enthusiasm to this role and to collaborate with Professor Elisa Barney and her team.

**Reviewing for International Journals:**

* **International Journal of Information and Education Technology (IJIET)**

ISSN: 2010-3689 (Online)

Indexed in: Scopus, INSPEC (IET), CNKI, EBSCO, Electronic Journals Library, Google Scholar, Crossref

Impact Factor: 1.11 (2021)

* **Journal of Advances in Information Technology (JAIT)**

ISSN: 1798-2340 (Online)

Indexed in: Scopus (Since 2020), EBSCO, Google Scholar, CrossRef, CNKI

Impact Factor: 2.97

* **Advances in Science, Technology and Engineering Systems Journal (ASTESJ)**

ISSN: 2415-6698

Indexed in: Scopus, Publons, Index Copernicus International

Impact Factor: 0.7

* **Journal of Machine Learning Research (JMLR)**

ISSN: 2637-5672 (Print), 2637-5680 (Online)

Indexed in: Eurasian Scientific Journal Index, CNKI Scholar

Impact Factor: 4.0

* **Informatics and Computer Science Intelligent Systems Applications An International Journal Information Sciences**

ISSN: 0020-025

Indexed in: Scopus, Zentralblatt MATH, Science Direct, Elsevier, ESCI

Impact Factor: 8.233

* **IIUM Engineering Journal**

ISSN: 1511-788X

Indexed in: Scopus (Q2), Web of Science, SCI, MCC

Impact Factor: 1.13

**Technical Committee Memberships in International Conferences:**

* The 8th International Conference on Fuzzy Systems and Data Mining (FSDM 2022) Held on November 4-7, 2022 in Xiamen, China
* Conference Proceedings indexed in EI Compendex, Scopus, ACM Digital Library, Google Scholar, CPCI
* 14th IEEE International Conference on Computational Intelligence and Communication Networks (CICN 2022) Held on December 04th-06th 2022 in Jeddah, Kingdom of Saudi Arabia
* 12th IEEE International Conference on Communication Systems and Network Technologies (CSNT 2023).

**REFERENCES**

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Provost and Dean of the School of Science and Engineering

Malaysia University of Science and Technology

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**LIST OF PUBLICATIONS**

**Journal Articles**

* Danish Jamil, S Palaniappan, F Qazi, D Shahwar, "**Classification of skin lesion using Deep Convolutional Neural Network by applying Transfer Learning"** Journal of Autonomous Intelligence, Vol. 6, No. 3, Scopus Index https://doi: 10.32629/jai.v6i3.747
* Danish Jamil, Sellappan Palaniappan, Muhammad Numan Ali Khan, Syed Mehr Ali Shah **Revolutionizing gastric cancer diagnosis through advanced Machine learning approaches** Journal of Autonomous Intelligence, Vol. 7, No. 4, Scopus Index pp.1-25. <https://doi.org/10.32629/jai.v7i4.1021>
* Danish Jamil, S Palaniappan, A Lokman,M Naseem, **Enhancing Prediction Accuracy in Gastric Cancer Using High-Confidence Machine Learning Models for Class Imbalance** Journal of Advances in Information Technology, Vol. 14, No. 6, pp. 1410- 1424, 2023. Impact factor 3.1 https://doi: 10.12720/jait.14.6.1410-1424
* **D Jamil,** S Palaniappan SK Debnath , A Lokman **A Prediction Model for Gastric Cancer via Class Balancing Techniques.** International Journal of Computer Science Network Security. 2023;23 (01):p53-63.
* **Danish Jamil**, S Palaniappan, A Lokman,M Naseem and S S Zia.(2022). **Diagnosis of Gastric Cancer Using Machine Learning Techniques in Healthcare Sector: A Survey***. Informatica. 45(7),* pp.147-166. Available at: https://doi.org/10.31449/inf.v45i7.3633.
* **D Jamil,** S Palaniappan ,S S Zia, A Lokman and M Naseem. (2022). **Reducing the Risk of Gastric Cancer Through Proper Nutrition – A Meta-Analysis**. International Journal of Online and Biomedical Engineering (iJOE). 18(07), pp.115-150. <https://doi.org/10.3991/ijoe.v18i07.30487>.
* **D Jamil**, S Palaniappan and A Lokman. (2022). **E-Healthcare System Diagnosis and Prediction Using Machine Learning; A Mini Review**. Biomedical Journal of Scientific & Technical Research (BJSTR). 45(1),

pp.36185-36186. [https://10.26717/BJSTR.2022.45.007157](https://10.0.104.93/BJSTR.2022.45.007157).

* S. S. Zia, K. T. Batool, M. Naseem, **D Jamil**, S. N. Hasany, T. Mubeen. (2020**). Software Requirements Prioritization using Agile Technique**. Sindh University Research Journal (Science Series). 52(02), pp.10-14. <https://sujo.usindh.edu.pk/index.php/SURJ/article/view/>

**Book Chapter**

* D Jamil,S Palaniappan, A Lokman "**Diagnosis of Gastric Cancer Using Machine Learning Techniques in the Healthcare Sector**: Chapter 16 in the Handbook on Augmenting Telehealth Services: Using Artificial Intelligence, part of the Book Series: Artificial Intelligence in Smart Healthcare Systems. (Production Unit)
* D Jamil,S Palaniappan,A Lokman and H Zaki. **Reducing the risk of Gastric Cancer through proper Nutrition: A Meta-Analysis** Book chapter in Securing Next-Generation Connected Healthcare Systems Using Artificial Intelligence Technologies. (Production Unit)

**Conference Paper**

* **D Jamil**,S Palaniappan,M N A Khan, A Lokman . **Cancer Care Application in the Healthcare Industry: A Review**; in 2022 3rd SITAM 2022 Symposium on Information Technology and Applied Mathematics - Proceedings 5-12 (SITAM 2022).
* **D Jamil**,S Palaniappan,A Lokman and H Zaki. **Diagnosis of Gastric Cancer Using Machine Learning Techniques: A Survey** in 2022 Proceedings of the 5th International Conference on Digital Innovation – Supply Chain -- Proceedings 4165-426 (ICDI-SC-2022). https://must.edu.my/wp-content/uploads/2022/10/ICDI-SC2022\_E-Proceedings-New.pdf