Srinivas University

Mangalore - India

Atomic Research Centre
Name of ARC

(Artificial Intelligent Systems in Health Care)

College of Engineering & Technology Research

Dr. Syed Hauider Abbas

PDF Research Scholar, Srinivas University

(Computer Science & Engineering)

1. **Purpose of ARC :**

Artificial Intelligence (AI) has grown both in terms of research along with private and public sector application in recent years. A part of this growth is the application of machine learning algorithms to in the healthcare sector. The main aim of research centre is to enhance the knowledge in the field of Artificial Intelligence (AI) & Machine Learning.

2. **Objective of ARC :**

➢ The prime aim of this research work is to assist pathologists by proposing a proficient and accessible automated diagnosis system.

➢ The machine learning algorithms play an inevitable role in disease diagnosis. The goal of the research was to generate reproducible machine learning modules for Cancer Detection Using Machine Learning from Biomedical Images.

➢ This will focus in on all perspectives identified with AI and ML alongside its current and future applications, in all potential areas from medical care to assembling.

3. Description on Proposed Research :

This will be done through a proposed CNN of machine learning concept. The present work proposes new model which is applicable for both, binary as well as multi-classification of breast cancer tissue images. A new CNN topology has been proposed that utilizes a defined training protocol and elaborated. The main characteristic of the proposed model is its in dependency on the magnification factors of the images.

4. Expected Outcome :

➢ Be capable to plan and apply different machine learning algorithms in a scope of real world applications.

➢ At a more fundamental level, it is also evident that machine learning is also helping to improve our basic understanding of cancer development and progression.

➢ The superior intentional of this work may be, it is to classify the dataset of histopathological images utilizing progressed machine learning strategies for an early conclusion of cancer. The strategy helps in improving the overall performance of the system in order to sub-classify the images of benign and malignant class accurately.

5. List of the Team Members : 02

(1) Dr. Krishna Prasad K, Advisor
(2) Dr. Syed Hauider Abbas , PDF Research Scholar

6. List of Working Papers :

(1) Cancer Detection Using Machine Learning from Biomedical Images.

(2) AI in healthcare

7. List of related Published Papers in Journals, Proceedings, Book Chapters, Magazines by this Group.

1. S.H.Abbas, Published a paper on "**Ant Colony Optimization Towards Image Enhancement**" in International Journal of Multidisciplinary Educational Research (Scopus Index ID: A2B96D3ACF3FEA2A)ISSN: 2277-7881 Volume: 8 / Issue: 9(2), September 2019.

2. Syed Hauider Abbas, Dr. S.k.agarwal, Published a paper on "**Images processing using ant colony optimization**" **JETIR** (UGC Approved Journal)ISSN: 2349-5162 Volume: 6 / Issue: 6, July 2019

3. Syed Hauider Abbas, Dr. S.k.agarwal, Published a paper on "**Ant Colon Optimization Towards Image Processing**" Journal of Advances and Scholarly Researches in Allied Education(UGC Approved Journal) Vol. 16, Issue No. 9, June-2019, ISSN 2230-7540

16/11/2021
Dr. Syed Hauider Abbas
Name & Signature of Coordinator with date.