Tuberous Sclerosis Complex (TSC) Disease Prediction Using Optimized Convolutional Neural Network

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ABSTRACT

Tuberous sclerosis Complex (TSC) disease is a multi-vistem genetic disorder that broadly affect the central nervous system resulting in Epilepsy, seizures, behavior problems, skinabnormalities, kidney disease etc. This hazardous disease is caused by defects or mutations of two genes: TSC1 and TSC2. The key challenge is to analyzing the hidden information that lies into TSC1 and TSC2 gene sequence which can reveal significant information to properly diagnosis the disease. Efficient data mining techniques can play a pivotal role in analyzing the attributes of TSCs in an automatic manner. For efficient classification of TSC, this paper proposes an optimized-CNN algorithm which is a hybridization of Convolution Neural Network (CNN) with Particle Swarm Optimization (PSO). Experimental analysis reveals that the proposed algorithm outperforms other traditional data mining techniques. The paper also generates analysis rules by applying Apriori and Decision Tree algorithms. The promising result of the proposed algorithm makes it a suitable cardidate to be used by the medical experts for the diagnosis of the disease.

CCS Concepts

 CCS → Computing methodologies → Machine learning → Machine learning approaches.

Keywords

OneHotEncoder; Tuberous Scierosis Complex (TSC); CNN optimized by PSO; Apriori Algorithm; TSC1 & TSC2 Gene; Single Nucleotide Protein () Sequence.

1. INTRODUCTION

Tuberous Scienosis is a rare genetic multisystem disorder resulting from mutations in the sequence of either TSC1 gene or TSC2 gene or both. It also causes tumors in various organs of

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human body including Brain, Kidney, Liver, Skin, Eyes etc. various types of symptoms incorporate with each other that may include seizures, intellectual disability, developmental delay, behavioral problems, skin abnormalities, and lung and kidney disease [15]. TSC1 and TSC2 genes are coded for producing Hamartin and Tuberin proteins. Both of the proteins act as tumor growth suppressor and also regulate cell proliferation and differentiation [18]. The physiological disclosure of TSC are because of the growth of hamartia, hamartomas and cancerous harmartoblastomas. The birth causation of Tuberous Sclerosis is 1 in 6000 [16]. Epilepsy [22] which is the long term result of Tuberous Sclerosis is the most common Neurological disorder found in TSC family. Till now this disease is diagnosed clinically by identifying different types of mutations in TSC1 and TSC2 zene sequence. If any of the mutations can be identified in a patient's TSC gene sequence, then that will be enough to diagnosis the disease. Since, the mutations database is increasing day by day and hence, only clinical intervention is not enough to detect TSC disease within a short time. It will be costly as well as time consuming to ensure the presence of the disease. An automated machine assisted mechanism can overcome this limitation very easily. But till now no such technique has been developed to detect and diagnose the disease

Duta mining techniques are basically ensemble types machine algorithms which extracts significant information within huge datasets. Nowadays, various data mining as well as machine learning techniques have a huge impact on medical science. They are able to generate classification rules by formed of IF condition and THEN statement. Hence, data mining approaches can play a significant role to analyze the genes to identify TSC disease.

To handle the problem, this paper proposes an optimized Convolution Neural Network to automatically analyze and predict the disease from the available data sources with an accuracy of 83.17%, outperforming few other classification algorithms. For data mining analysis we have focused on Apriori and decision tree rule induction mechanism and generate a set of association rules which can lead experts to perform accurate diagnosis and develop diagnosis methods desembing on the association rules.

The rest of the paper is organized as follows. Section 2 gives an overview of other related works. A brief overview and statistics of the data set is illustrated in Section 3. Our proposed framework is presented in Section 4. The following sections gives the implementation mechanism of the proposed framework. Comparative analysis of the results obtained from various experiment over the data set as well as the generated rules are

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Rainbow Dreams: 35 Years Of Empowering Children With Autism And Other Developmental Challenges Kenneth K Poon, Sze Wee Tan, Faridah Ali Chang, Manoj Pathnapuram, Kenneth Lyen, 2022-11-15 This book discusses the management of individuals on the autistic spectrum as well as other developmental challenges It provides an excellent resource guide for parents caregivers educators healthcare workers psychologists and everyone involved in the care of differently abled and autistic persons The approach is practical and the aim is to try to gain deeper understanding into these conditions Based on the experience of the staff and parents of the Rainbow Centre the management is a person centred multidisciplinary and quality of life focused approach to helping these persons The book also covers the history and future directions across one s lifespan in the care of these individuals **Absolute Pediatric Neurology** Yasser M. Awaad, 2018-07-24 This practical book features more than 1000 questions and answers with illustrations for pediatric neurologists adult neurologists general pediatricians and students taking their initial board examination and maintenance of certification All questions are in multiple choice format and followed by the correct answer with a full explanation and appropriate references Chapters are sectioned by different topics in pediatric neurology including Epilepsy Metabolic Disorders and Movement Disorders and other topics Timely and thorough this is a handy and succinct resource The Shareholder Action Guide Andrew Behar, 2016-11-14 A valuable call to action for small shareholders to change the ways big corporations do business Robert Reich former US Secretary of Labor Want to make misbehaving corporations mend their ways You can If you own their stock corporations have to listen to you Shareholder advocate Andrew Behar explains how to exercise your proxy voting rights to weigh in on corporate policies you only need a single share of stock to do it If you ve got just 2 000 in stock Behar shows how you can go further and file a resolution to directly address the board of directors And even if your investments are in a workplace sponsored 401 k or a mutual fund you can work with your fund manager to purge corporations from your portfolio that don't align with your values Illustrated with inspiring stories of individuals who have gone up against corporate Goliaths and won this book informs inspires and instructs investors how to unleash their power to change the world Cloud Computing - CLOUD 2023 Min Luo, Liang-Jie Zhang, 2024-01-13 This book constitutes the refereed proceedings of the 7th International Conference on Cloud Computing CLOUD 2023 held in Shenzhen China during December 17 18 2023 The 5 full papers and 3 short papers in this book were carefully reviewed and selected from 13 submissions. The conference facilitates the exploration of emerging research areas and the shaping of the future landscape of cloud computing The Vegetable **Pathosystem** Mohammad Ansar, Abhijeet Ghatak, 2019-12-19 Variability in vegetable pathogens is a critical issue particularly in changing environments as it presents challenges to accurate diagnoses and proper management This book focuses on the diverse ecology of phytopathogens covering the varying disease categories acute chronic and emerging the mechanisms involved in disease development pathogen variability and disease management The book also discusses the preharvest and

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 - The Rise of Digital Reading Tsc Disease Wiki
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Tsc Disease Wiki
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Tsc Disease Wiki
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Tsc Disease Wiki
 - Personalized Recommendations

- Tsc Disease Wiki User Reviews and Ratings
- Tsc Disease Wiki and Bestseller Lists
- 5. Accessing Tsc Disease Wiki Free and Paid eBooks
 - o Tsc Disease Wiki Public Domain eBooks
 - Tsc Disease Wiki eBook Subscription Services
 - Tsc Disease Wiki Budget-Friendly Options
- 6. Navigating Tsc Disease Wiki eBook Formats
 - o ePub, PDF, MOBI, and More
 - Tsc Disease Wiki Compatibility with Devices
 - Tsc Disease Wiki Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Tsc Disease Wiki
 - Highlighting and Note-Taking Tsc Disease Wiki
 - Interactive Elements Tsc Disease Wiki
- 8. Staying Engaged with Tsc Disease Wiki
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Tsc Disease Wiki
- 9. Balancing eBooks and Physical Books Tsc Disease Wiki
 - ∘ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Tsc Disease Wiki
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Tsc Disease Wiki
 - Setting Reading Goals Tsc Disease Wiki
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tsc Disease Wiki
 - Fact-Checking eBook Content of Tsc Disease Wiki

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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