

A MODEL FOR PREDICTING MALARIA OUTBREAK USING MACHINE LEARNING TECHNIQUE

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ABSTRACT: Malaria is a mosquito-borne infectious disease caused by protists (a form of microorganism) of the *Plasmodium* genus in humans and other animals. Malaria is a leading worldwide cause of morbidity and mortality. According to WHO the estimated value of malaria cases in 2019 was 229 million worldwide, with children under the age of 5 years having 67% (274,000) and being the most vulnerable group affected by malaria. Nigeria Demographics and health survey (NDHS) has a repository for data that can be used to predict malaria disease outbreak using machine learning techniques, from the literature reviewed no research has been carried out using machine learning technique to model the prediction of malaria outbreak using malaria incidence data from southwest Nigeria. This Research work used 5 supervised machine learning techniques to model the outbreak of malaria using meteorological and malaria incidence data of collected from 2010 - 2020, the machine learning techniques that was used are, Naive Bayes, Support Vector, Linear Regression, Logistic Regression, and K-Nearest Neighbor. The research was carried out using Scikit-learn Library that was imported into Anaconda IDE, the programming language used was Python programming language. The result of the research shows that Naive Bayes has the best accuracy for both testing and training with average accuracy of 79.1% and therefore is the best prediction model that can be used for predicting malaria incidence outbreak using the data set used in this research. Support Vector machine (SVM) is the second best prediction model that can be used for predicting malaria incidence outbreak for both testing and training data with average accuracy of 75.45%, followed by K-Nearest Neighbor with average accuracy of 70.8%, followed by Logistic Regression prediction model which has an average accuracy of 68%, based on this research work it is not advisable to use Linear Regression prediction model for predicting malaria incidence outbreak because it has an average accuracy of 26.05%.

KEYWORDS: Artificial Intelligence, Machine Learning, pre-processing, Prediction, Malaria, Support Vector machine, Naive Bayes, Logistic Regression

1. INTRODUCTION

Artificial intelligence (AI) is a field of computer science concerned with building smart machines capable of performing tasks that require human intelligence, one of the fields of artificial intelligence is machine learning, robotics, knowledge representation etc [7]. Machine learning is a field of artificial intelligence that trains algorithms to learn from previous experience and improve it to solve problems; machine learning has been a very important tool in solving problems that are related to Image Recognition, Speech Recognition, Medical diagnosis, and prediction of diseases. The prediction of disease outbreaks warns that a certain amount of disease may exceed the expected amount in the future at a particular time [5]. Prediction of infectious diseases attempts to predict the features of both seasonal epidemics and possible pandemics. Accurate and timely detection of infectious diseases by informing key preparedness and mitigation activities may help public health responses [3]. Malaria is a mosquito-

borne infectious disease caused by protists (a form of microorganism) of the *Plasmodium* genus in humans and other animals. It starts with a bite from an infected female mosquito that introduces the protists into the circulatory system via its saliva, and eventually to the liver where they develop and reproduce. According to the WHO report of 2018, malaria is causing public health concern in developing countries, with estimated resultant deaths close to a million annually.

According to a publication by Severe Malaria Observatory on 28th of October 2020 Nigeria had the highest number of global malaria cases (25% of global malaria cases) in 2018 and accounted for the highest number of deaths, according to the 2019 World Malaria Report (24% of global malaria deaths). Malaria is transmitted throughout Nigeria; 76% of the population lives in areas of high transmission, while 24% of the population lives in areas of low transmission. In the south, the transmission season can last throughout the whole year and is about 3 months or less in the northern part of the country (Severe Malaria Observatory (SMO),

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Research Anthology on Machine Learning Techniques, Methods, and Applications Management Association, Information Resources, 2022-05-13 Machine learning continues to have myriad applications across industries and fields To ensure this technology is utilized appropriately and to its full potential organizations must better understand exactly how and where it can be adapted Further study on the applications of machine learning is required to discover its best practices challenges and strategies The Research Anthology on Machine Learning Techniques Methods and Applications provides a thorough consideration of the innovative and emerging research within the area of machine learning The book discusses how the technology has been used in the past as well as potential ways it can be used in the future to ensure industries continue to develop and grow Covering a range of topics such as artificial intelligence deep learning cybersecurity and robotics this major reference work is ideal for computer scientists managers researchers scholars practitioners academicians instructors and students

Big data analytics for smart healthcare applications Celestine Iwendi, Thippa Reddy Gadekallu, Ali Kashif Bashir, 2023-04-17 Fuzzy Systems and Data Mining IV Antonio J. Tallón-Ballesteros, Kaicheng Li, 2018-11-15 Big Data Analytics is on the rise in the last years of the current decade Data are overwhelming the computation capacity of high performance servers Cloud grid edge and fog computing are a few examples of the current hype Computational Intelligence offers two faces to deal with the development of models on the one hand the crisp approach which considers for every variable an exact value and on the other hand the fuzzy focus which copes with values between two boundaries This book presents 114 papers from the 4th International Conference on Fuzzy Systems and Data Mining FSDM 2018 held in Bangkok Thailand from 16 to 19 November 2018 All papers were carefully reviewed by program committee members who took into consideration the breadth and depth of the research topics that fall within the scope of FSDM The acceptance rate was 32 85% Offering a state of the art overview of fuzzy systems and data mining the publication will be of interest to all those whose work involves data science

Smart Trends in Computing and Communications Yu-Dong Zhang, Tomonobu Senjyu, Chakchai So-In, Amit Joshi, 2022-07-05 This book gathers high quality papers presented at the Sixth International Conference on Smart Trends in Computing and Communications SmartCom 2022 organized by Global Knowledge Research Foundation GR Foundation in partnership with IFIP InterYIT during January 11 12 2022 It covers the state of the art and emerging topics in information computer communications and effective strategies for their use in engineering and managerial applications It also explores and discusses the latest technological advances in and future directions for information and knowledge computing and its applications

Advanced Deep Learning for Engineers and Scientists Kolla Bhanu Prakash, Ramani Kannan, S. Albert Alexander, G. R. Kanagachidambaresan, 2021-07-24 This book provides a complete illustration of deep learning concepts with case studies and practical examples useful for real time applications This book introduces a broad range of topics in deep learning The authors start with the fundamentals architectures tools needed for

effective implementation for scientists They then present technical exposure towards deep learning using Keras Tensorflow Pytorch and Python They proceed with advanced concepts with hands on sessions for deep learning Engineers scientists researches looking for a practical approach to deep learning will enjoy this book Presents practical basics to advanced concepts in deep learning and how to apply them through various projects Discusses topics such as deep learning in smart grids and renewable energy Explains how to implement advanced techniques in deep learning using Pytorch Keras Python programming

Artificial Intelligence and IoT Kalaiselvi Geetha Manoharan,Jawaharlal Arun Nehru,Sivaraman Balasubramanian,2021-02-12 This book projects a futuristic scenario that is more existent than they have been at any time earlier To be conscious of the bursting prospective of IoT it has to be amalgamated with AI technologies Predictive and advanced analysis can be made based on the data collected discovered and analyzed To achieve all these compatibility complexity legal and ethical issues arise due to automation of connected components and gadgets of widespread companies across the globe While these are a few examples of issues the authors intention in editing this book is to offer concepts of integrating AI with IoT in a precise and clear manner to the research community In editing this book the authors attempt is to provide novel advances and applications to address the challenge of continually discovering patterns for IoT by covering various aspects of implementing AI techniques to make IoT solutions smarter The only way to remain pace with this data generated by the IoT and acquire the concealed acquaintance it encloses is to employ AI as the eventual catalyst for IoT IoT together with AI is more than an inclination or existence it will develop into a paradigm It helps those researchers who have an interest in this field to keep insight into different concepts and their importance for applications in real life This has been done to make the edited book more flexible and to stimulate further interest in topics All these motivated the authors toward integrating AI in achieving smarter IoT The authors believe that their effort can make this collection interesting and highly attract the student pursuing pre research research and even master in multidisciplinary domain

Artificial Intelligence Application in Networks and Systems Radek Silhavy,Petr Silhavy,2023-07-08 The application of artificial intelligence in networks and systems is a rapidly evolving field that has the potential to transform a wide range of industries The refereed proceedings in this book is from the Artificial Intelligence Application in Networks and Systems session of the Computer Science Online Conference 2023 CSOC 2023 which was held online in April 2023 The section brings together experts from different fields to present their research and discuss the latest trends and challenges One of the key themes in this section is the development of intelligent systems that can learn adapt and optimize their performance in real time Researchers are exploring how AI algorithms can be used to create autonomous networks and systems that can make decisions without human intervention Furthermore this section highlights the use of AI in improving network performance and efficiency Researchers are exploring how AI algorithms can be used to optimize network routing reduce congestion and improve the quality of service These efforts can help organizations save costs and improve user experience

Recent Developments in

Smart Healthcare Wenbing Zhao, Xiong Luo, Tie Qiu, 2018-03-23 This book is a printed edition of the Special Issue Smart Healthcare that was published in Applied Sciences

Machine Intelligence and Smart Systems Manish Gupta, Shikha Agrawal, Kamlesh Gupta, Jitendra Agrawal, Korhan Cengiz, 2025-03-05 The two volume set CCIS 1951 and 1952 constitutes the refereed post conference proceedings of the Third International Conference on Machine Intelligence and Smart Systems MISS 2023 Bhopal India during January 24 25 2023 The 58 full papers included in this book were carefully reviewed and selected from 203 submissions They were organized in topical sections as follows Language processing Recent trends AI defensive schemes Principle components Deduction and prevention models

Engineering Vibration, Communication and Information Processing Kanad Ray, S. N. Sharan, Sanyog Rawat, S. K. Jain, Sumit Srivastava, Anirban Bandyopadhyay, 2018-10-30 This book discusses the revolution of cycles and rhythms that is expected to take place in different branches of science and engineering in the 21st century with a focus on communication and information processing It presents high quality papers in vibration sciences rhythms and oscillations neurosciences mathematical sciences and communication It includes major topics in engineering and structural mechanics computer sciences biophysics and biomathematics as well as other related fields Offering valuable insights it also inspires researchers to work in these fields The papers included in this book were presented at the 1st International Conference on Engineering Vibration Communication and Information Processing ICoEVCi 2018 India

Proceedings of ICRIC 2019 Pradeep Kumar Singh, Arpan Kumar Kar, Yashwant Singh, Maheshkumar H. Kolekar, Sudeep Tanwar, 2019-11-21 This book presents high quality original contributions both theoretical and experimental on software engineering cloud computing computer networks internet technologies artificial intelligence information security and database and distributed computing It gathers papers presented at ICRIC 2019 the 2nd International Conference on Recent Innovations in Computing which was held in Jammu India in March 2019 This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies AI and machine learning cloud based e Learning and big data security and privacy image processing and computer vision and next generation computing technologies

Soft Computing Applications Valentina Emilia Balas, Lakhmi C. Jain, Marius Mircea Balas, Dumitru Baleanu, 2023-10-26 Soft computing techniques open significant opportunities in several areas such as industry medicine energy security transportation and education This book provides theory and applications development using soft computing techniques by organizing intelligent systems for many applications to the benefit of humanity The book comes from a multidisciplinary subject whose audience can come from different academic departments e g department of computer science and engineering department of medical imaging department of biomedical informatics department of education sciences and so on where artificial intelligence and soft computing are of routine courses The book covers a range of audience from academicians practitioners researchers and students to stakeholders It can support graduate students and interns to develop

a deep understanding of the latest paradigms in the soft computing techniques **Securing IoT and Big Data**

Vijayalakshmi Saravanan, Alagan Anpalagan, T. Poongodi, Firoz Khan, 2020-12-16 This book covers IoT and Big Data from a technical and business point of view The book explains the design principles algorithms technical knowledge and marketing for IoT systems It emphasizes applications of big data and IoT It includes scientific algorithms and key techniques for fusion of both areas Real case applications from different industries are offering to facilitate ease of understanding the approach The book goes on to address the significance of security algorithms in combining IoT and big data which is currently evolving in communication technologies The book is written for researchers professionals and academicians from interdisciplinary and transdisciplinary areas The readers will get an opportunity to know the conceptual ideas with step by step pragmatic examples which makes ease of understanding no matter the level of the reader Proceedings of Fourth International

Conference on Computing, Communications, and Cyber-Security Sudeep Tanwar, Slawomir T. Wierzchon, Pradeep Kumar Singh, Maria Ganzha, Gregory Epiphaniou, 2023-07-01 This book features selected research papers presented at the Fourth International Conference on Computing Communications and Cyber Security IC4S 2022 organized in Ghaziabad India during October 21 22 2022 The conference was hosted at KEC Ghaziabad in collaboration with WSG Poland SFU Russia CSRL India It includes innovative work from researchers leading innovators and professionals in the area of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues *Spatial Audio* Woon Seng Gan, Jung-Woo Choi, 2018-03-23 This book is a printed

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Conference on Computational Science and Technology Rayner Alfred, Yuto Lim, 2022-03-25 This book gathers the proceedings of the Seventh International Conference on Computational Science and Technology ICCST 2021 held in Labuan Malaysia on 28 29 August 2021 The respective contributions offer practitioners and researchers a range of new computational techniques and solutions identify emerging issues and outline future research directions while also showing them how to apply the latest large scale high performance computational methods **Proceedings of Sixth International Congress on Information**

and Communication Technology Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2021-09-09 This book gathers selected high quality research papers presented at the Sixth International Congress on Information and Communication Technology held at Brunel University London on February 25 26 2021 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies The book is presented in four volumes

Intelligent Control, Robotics, and Industrial Automation Sanjay Sharma, Bidyadhar Subudhi, Umesh Kumar Sahu, 2023-11-17 This volume comprises peer reviewed proceedings of the International Conference on Robotics Control

Automation and Artificial Intelligence RCAAI 2022 It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the Internet of Things machine vision cybersecurity robotics circuits and sensors among others This volume will provide a valuable resource for those in academia and industry *DIGITALIZATION, METAVERSE, ARTIFICIAL INTELLIGENCE IN THE CONTEXT OF HUMAN AND INDIVIDUAL RIGHTS PROTECTION IN UKRAINE AND THE WORLD* Kostenko Oleksii,Kharytonova Olena,Kharytonov Yevhen,2025-06-23 This monograph examines the legal issues related to the dynamics of Ukraine s digital transformation focusing on the intersection of artificial intelligence the metaverse and the protection of human rights in general and individual rights in particular in Ukraine and the world The monograph offers a comprehensive legal analysis of the categories and phenomena of global digitalization such as the metaverse the artificial Internet digital rights digital identity etc The key topics include understanding artificial intelligence as a legal concept studying the problems of its legal personality and responsibility and establishing its significance and role in the context of hybrid warfare In addition the study analyzes the potential of artificial intelligence technologies in the economic and industrial revival of Ukraine the possibilities and legal problems of their use in legal including notary practice in the field of medicine and pharmacy in education and the corporate sector It also explores the current problems of using blockchain technology and artificial intelligence in the management of intellectual property rights This emphasizes the need for interdisciplinary cooperation to address the challenges of protecting sensitive data and innovation while promoting a sustainable balance between innovation and social well being This work contributes to the ongoing discourse on the role of digital technologies in shaping future societies by offering a unique perspective on their application and governance on Ukraine s path to a digital society *Computing Technologies for Sustainable Development* Prasanna Devi Sivakumar,Raj Ramachandran,Chitra Pasupathi,Prabha Balakrishnan,2025-02-14 This book constitutes the refereed proceedings of the First International Research Conference on Computing Technologies for Sustainable Development IRCCTSD 2024 held in Chennai India during May 9 10 2024 The 65 full papers and 14 short papers presented here were carefully selected and reviewed from 264 submissions These papers have been organized in the following topical sections Part I innovations in precision agriculture techniques and strategies for enhancing agriculture production classification and prediction analysis in healthcare animal welfare and innovations in diagnostics Part II video and image processing for security analysis innovations for smart cities sustainable practices in e commerce challenges and trends Part III environmental analysis and protection inclusive communication techniques AI for text audio image and video processing and application of AI for education

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Table of Contents Malaria Outbreak Prediction Model Using Machine Learning

1. Understanding the eBook Malaria Outbreak Prediction Model Using Machine Learning
 - The Rise of Digital Reading Malaria Outbreak Prediction Model Using Machine Learning
 - Advantages of eBooks Over Traditional Books
2. Identifying Malaria Outbreak Prediction Model Using Machine Learning
 - 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 Malaria Outbreak Prediction Model Using Machine Learning
 - User-Friendly Interface
4. Exploring eBook Recommendations from Malaria Outbreak Prediction Model Using Machine Learning

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

- Fact-Checking eBook Content of Malaria Outbreak Prediction Model Using Machine Learning
- 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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