

# Forex Trend Classification Using Machine Learning Techniques

Text Classification Using Machine Learning  
Web-based Classification Using Machine Learning Approaches  
Practical Guide for Biomedical Signals Analysis Using Machine Learning Techniques  
Machine Learning Techniques for Time Series Classification  
Store classification using machine learning  
System Design for Epidemics Using Machine Learning and Deep Learning  
Recent Advances in Big Data, Machine, and Deep Learning for Precision Agriculture, Volume II  
Emerging Trends in IoT and Computing Technologies  
Measurement Data Classification Using Machine Learning Algorithms  
Proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics 2022  
Automatic Product Classification in E-commerce Using Machine Learning Algorithms  
Advances in Data-Driven Computing and Intelligent Systems  
Applications of AI in Smart Technologies and Manufacturing  
Deep Learning Methods and Applications in Brain Imaging for the Diagnosis of Neurological and Psychiatric Disorders  
Computational Intelligence for Genomics Data  
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Learning to Classify Text Using Support Vector Machines  
Machine Learning Models and Algorithms for Big Data Classification  
Data Science Employment Classification Using Machine Learning  
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Advances in Data-Driven Computing and Intelligent Systems Applications of AI in Smart Technologies and Manufacturing Deep Learning Methods and Applications in Brain Imaging for the Diagnosis of Neurological and Psychiatric Disorders Computational Intelligence for Genomics Data Applied Computer Sciences in Engineering Machine Learning Techniques Learning to Classify Text Using Support Vector Machines Machine Learning Models and Algorithms for Big Data Classification Data Science Employment Classification Using Machine Learning *Vinay Kumar Polisetty Yanhui Huang Abdulhamit Subasi Michael Botsch Sergi Gispert Serrano G. R. Kanagachidambaresan Muhammad Fazal Ijaz Suman Lata Tripathi David Andrew Hamblin Aboul Ella Hassanien Matteo Radaelli Swagatam Das S.P. Jani Hao Zhang Babita Pandey Juan Carlos Figueroa-García C Perez Thorsten Joachims Shan Suthaharan Tejas Chandrashekar*

automatic text classification has always been given importance in the field of computer since the beginning of digital documents considering the large amounts of documents online and the speed with which the digital information is being produced automating the task of text classification has a great practical use given the task of automation the documents can be classified based on the genre of the articles for instance politics sports religion etc the digital documents are available in the form of news feeds online news article journal papers etc text classification is a task of classifying a document into a predefined category if we have a document  $d$  in a set of document  $D$  and we have predefined classes  $c_1 c_2 c_3 \dots c_n$  the document  $d$  will be classified and be associated with a class  $c_i$  based on what it contains text classification is done based on the readily available statistical algorithms these algorithms need to be trained with a set of labeled documents and a set of test document are classified with the these algorithms the accuracy with which the test documents are classifies gives us a measure of how well the algorithm can perform and thus can be used to categorize unlabeled documents i aim to develop the bayesian classifier in java and train the algorithm with a certain test data and calculate the accuracy of the classifier and how well it fairs when applied to a testing data which is already labeled

practical guide for biomedical signals analysis using machine learning techniques a matlab based approach presents how machine learning and biomedical signal processing methods can be used in biomedical signal analysis different machine learning applications in biomedical signal analysis including those for electrocardiogram electroencephalogram and electromyogram are described in a practical and comprehensive way helping readers with limited knowledge sections cover biomedical signals and machine learning techniques biomedical signals such as electroencephalogram eeg electromyogram emg and electrocardiogram ecg different

signal processing techniques signal de noising feature extraction and dimension reduction techniques such as pca ica kPCA mspca entropy measures and other statistical measures and more this book is a valuable source for bioinformaticians medical doctors and other members of the biomedical field who need a cogent resource on the most recent and promising machine learning techniques for biomedical signals analysis provides comprehensive knowledge in the application of machine learning tools in biomedical signal analysis for medical diagnostics brain computer interface and man machine interaction explains how to apply machine learning techniques to eeg ecg and emg signals gives basic knowledge on predictive modeling in biomedical time series and advanced knowledge in machine learning for biomedical time series

classification of time series is an important task in various fields e g medicine finance and industrial applications this work discusses strong temporal classification using machine learning techniques here two problems must be solved the detection of those time instances when the class labels change and the correct assignment of the labels for this purpose the scenario based random forest algorithm and a segment and label approach are introduced the latter is realized with either the augmented dynamic time warping similarity measure or with interpretable generalized radial basis function classifiers the main application presented in this work is the detection and categorization of car crashes using machine learning depending on the crash severity different safety systems e g belt tensioners or airbags must be deployed at time instances when the best possible protection of passengers is assured

in this project we have developed different image classification systems based on machinelearning techniques this work has implemented classifiers based on basic machine learning techniques as well as classifiers based on more complex techniques such as convolutional neural networks the purpose of these classifiers is first to differentiate between an open and a closed store and then to classify these open stores according to the type of activity carried out there it should be mentioned that this project is part of a higher project carried out by the diputació de barcelona where the ultimate goal is to place cameras on top of a municipality vehicle so that it captures georeferenced images of shops so that information can be extracted to check if they comply with the regulations

this book explores the benefits of deploying machine learning ml and artificial intelligence ai in the health care environment the authors study different research directions that are working to serve challenges faced in building strong healthcare infrastructure with respect to the pandemic crisis the authors take note of obstacles

faced in the rush to develop and alter technologies during the covid crisis they study what can be learned from them and what can be leveraged efficiently the authors aim to show how healthcare providers can use technology to exploit advances in machine learning and deep learning in their own applications topics include remote patient monitoring data analysis of human behavioral patterns and machine learning for decision making in real time

this research topic is part of the series recent advances in big data machine and deep learning for precision agriculture precision agriculture can be defined as applying real time reliable information to optimize the use of resources and the management of farming practices minimizing environmental impacts with the evolution of remote sensing technologies big data that must be converted to information is being generated in the agricultural sector when analysed with machine and deep learning approaches applied to remote sensing products this data has been used successfully the computational power using cloud based systems and recent advances in farm machinery equipment providing data collection processing and analysis opens several opportunities to develop and adopt new technologies large scale farm precision experimentation conducted in partnership with commercial farms and the appearance of new sensors on board uavs crop duster aeroplanes and satellites such as radar technologies that allow daily remote data collection under cloudy skies are exciting and require more investigation in addition new equipment and sensors are enabling improved crop monitoring and land use mapping on a regional scale recent advances in imaging and information technology have led to the massive production of digital images of plant specimens and living plants worldwide computer vision and machine learning approaches are up and coming technologies to investigate and interpret digitized images of wild and domesticated taxa deep learning technologies have been recently shown to achieve impressive performance on a variety of predictive tasks such as automated species identification trait detection organ counting measurement and recognition this research topic aims to explore how big data machine and deep learning algorithms are being applied to precision agriculture and plant health this topic will investigate how these tools could be used and improved in the future to aid food security mainly involving the integration of state of the art technologies we hope to increase the recognition and accessibility of ai ml tools in agricultural and plant research this research topic will bring together researchers from diverse fields and specializations such as plant bioinformatics computer engineering computer science agricultural engineering environmental engineering food engineering information technology and mathematics this research topic welcomes diverse articles including original research

reviews and perspective papers potential topics include but are not limited to big data machine and deep learning for plant and fruit disease classification features optimization for plant disease classification classification of plant types using big data machine and deep learning recognition of plant and fruit diseases using big data machine and deep learning on farm precision experimentation monitoring and surveillance using hyperspectral images monitoring crop areas convolutional neural network based fruit and crop disease detection fusion of fully connected layers for classification of plant disease selection of optimal features for plant disease

second international conference on emerging trends in iot and computing technologies iceict 2023 is organised with a vision to address the various issues to promote the creation of intelligent solution for the future it is expected that researchers will bring new prospects for collaboration across disciplines and gain ideas facilitating novel concepts second international conference of emerging trends in iot and computer technologies iceict 2023 is an inventive event organised in goel institute of technology and management lucknow india with motive to make available an open international forum for the researches academicians technocrats scientist engineers industrialist and students around the globe to exchange their innovations and share the research outcomes which may lead the young researchers academicians and industrialist to contribute to the global society the conference iceict 2023 is being organised at goel institute of technology and management lucknow uttar pradesh during 12 13 january 2024 it will feature world class keynote speakers special sessions along with the regular oral paper presentations the conference welcomes paper submissions from researcher practitioners academicians and students will cover numerous tracks in the field of computer science and engineering and associated research areas

this proceedings book constitutes the refereed proceedings of the 8th international conference on advanced intelligent systems and informatics aisi 2021 which took place in cairo egypt during november 20 22 2022 and is an international interdisciplinary conference that presents a spectrum of scientific research on all aspects of informatics and intelligent systems technologies and applications

this book is a collection of best selected research papers presented at the international conference on advances in data driven computing and intelligent systems adcis 2023 held at bits pilani k k birla goa campus goa india during september 21 23 2023 it includes state of the art research work in the cutting edge technologies in the field of data science and intelligent systems the book presents data driven computing it is a new field of computational analysis which uses provided data to directly produce

predictive outcomes the book is useful for academicians research scholars and industry persons

applications of ai in smart technologies and manufacturing presents a rich repository of groundbreaking research in emerging engineering domains with contributions from eminent educators industrialists scientists and researchers this book highlights the transformative role of ai and smart technologies in enhancing community welfare and shaping the future of manufacturing and engineering practices this title comprises a selection of papers that reflect a global exchange of ideas in digital manufacturing advanced machining processes bioengineering tribology smart materials iot applications energy storage smart cities robotics and ai applications in healthcare with special emphasis on optimization algorithms virtual and augmented reality in automation and smart energy technologies this volume delves into ways in which rapid technological advancements are breaking traditional barriers in education research and industrial applications this is a resourceful guide for researchers academicians engineers industrial practitioners and graduate students in the domains of mechanical engineering smart technologies artificial intelligence and automation it is also highly relevant to decision makers and r d professionals focused on applying ai and smart solutions to achieve sustainable innovation in engineering and technology

brain imaging has been successfully used to generate image based biomarkers for various neurological and psychiatric disorders such as alzheimer s and related dementias parkinson s disease stroke traumatic brain injury brain tumors depression schizophrenia etc however accurate brain image based diagnosis at the individual level remains elusive and this applies to the diagnosis of neuropathological diseases as well as clinical syndromes in recent years deep learning techniques due to their ability to learn complex patterns from large amounts of data have had remarkable success in various fields such as computer vision and natural language processing applying deep learning methods to brain imaging assisted diagnosis while promising is facing challenges such as insufficiently labeled data difficulty in interpreting diagnosis results variations in data acquisition in multi site projects integration of multimodal data clinical heterogeneity etc the goal of this research topic is to gather cutting edge research that showcases the application of deep learning methods in brain imaging for the diagnosis of neurological and psychiatric disorders we encourage submissions that demonstrate novel approaches to overcome various abovementioned difficulties and achieve more accurate reliable generalizable and interpretable diagnosis of neurological and psychiatric disorders in this field

computational intelligence for genomics data presents an overview of machine learning and deep learning techniques being developed for the analysis of genomic data and the development of disease prediction models the book focuses on machine and deep learning techniques applied to dimensionality reduction feature extraction and expressive gene selection it includes designs algorithms and simulations on matlab and python for larger prediction models and explores the possibilities of software and hardware based applications and devices for genomic disease prediction with the inclusion of important case studies and examples this book will be a helpful resource for researchers graduate students and professional engineers provides comparative analysis of machine learning and deep learning methods in the analysis of genomic data discussing major design challenges best practices pitfalls and research potential explores machine and deep learning techniques applied to dimensionality reduction feature extraction data selection and their application in genomics presents case studies of various diseases based on gene microarray expression data including cancer liver disorders neuromuscular disorders and neurodegenerative disorders

this book constitutes the refereed proceedings of the 10th workshop on engineering applications wea 2023 held in cartagena colombia during november 1 3 2023 the 37 full papers included in this book were carefully reviewed and selected from 93 submissions they were organized in topical sections as follows artificial intelligence optimization and simulation

machine learning algorithms use computational methods to learn information directly from data without relying on a predetermined equation as a model the algorithms adaptively improve their performance as the number of samples available for learning increases machine learning uses two types of techniques supervised learning which trains a model on known input and output data so that it can predict future outputs and unsupervised learning which finds hidden patterns or intrinsic structures in input data the aim of supervised machine learning is to build a model that makes predictions based on evidence in the presence of uncertainty a supervised learning algorithm takes a known set of input data and known responses to the data output and trains a model to generate reasonable predictions for the response to new data supervised learning uses classification and regression techniques to develop predictive models classification techniques predict categorical responses for example whether an email is genuine or spam or whether a tumor is cancerous or benign classification models classify input data into categories typical applications include medical imaging image and speech recognition and credit scoring this book develops supervised machine learning techniques for classification regression techniques predict continuous responses for

example changes in temperature or fluctuations in power demand typical applications include electricity load forecasting and algorithmic trading

based on ideas from support vector machines svms learning to classify text using support vector machines presents a new approach to generating text classifiers from examples the approach combines high performance and efficiency with theoretical understanding and improved robustness in particular it is highly effective without greedy heuristic components the svm approach is computationally efficient in training and classification and it comes with a learning theory that can guide real world applications learning to classify text using support vector machines gives a complete and detailed description of the svm approach to learning text classifiers including training algorithms transductive text classification efficient performance estimation and a statistical learning model of text classification in addition it includes an overview of the field of text classification making it self contained even for newcomers to the field this book gives a concise introduction to svms for pattern recognition and it includes a detailed description of how to formulate text classification tasks for machine learning

this book presents machine learning models and algorithms to address big data classification problems existing machine learning techniques like the decision tree a hierarchical approach random forest an ensemble hierarchical approach and deep learning a layered approach are highly suitable for the system that can handle such problems this book helps readers especially students and newcomers to the field of big data and machine learning to gain a quick understanding of the techniques and technologies therefore the theory examples and programs matlab and r presented in this book have been simplified hardcoded repeated or spaced for improvements they provide vehicles to test and understand the complicated concepts of various topics in the field it is expected that the readers adopt these programs to experiment with the examples and then modify or write their own programs toward advancing their knowledge for solving more complex and challenging problems the presentation format of this book focuses on simplicity readability and dependability so that both undergraduate and graduate students as well as new researchers developers and practitioners in this field can easily trust and grasp the concepts and learn them effectively it has been written to reduce the mathematical complexity and help the vast majority of readers to understand the topics and get interested in the field this book consists of four parts with the total of 14 chapters the first part mainly focuses on the topics that are needed to help analyze and understand data and big data the second part covers the topics that can explain the systems required for processing big data the third part presents the topics required to understand and select machine learning

techniques to classify big data finally the fourth part concentrates on the topics that explain the scaling up machine learning an important solution for modern big data problems

following the gold rush in artificial intelligence a new career track called data scientists has taken the world by storm with a combination of skills in business intuition and technical soundness data science is considered the most sought after job in the 21st century but one must be able to classify if a job posting is a data science related job or not this thesis aims to classify a job posting whether it belongs to data science field or not using a machine learning model based on the results obtained an extensive analysis is done to find out various patterns and to find out if data science is actually in demand as one might think the machine learning models used for the classifying the job advertisements are support vector machine and neural networks with tensorflow

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