

methods rely on the availability of large-scale historical weather data (e.g., temperature, humidity, and wind speed) and often suffer from the following shortcomings:

- 1) They require large-scale historical data to guarantee forecast accuracy while acquiring massive weather data is limited for many utilities;
- 2) There is a need to balance data adequacy with avoiding over-fitting problems.

Due to effectively reducing the volume of data used, feature selection is proven to be an effective solution to these limitations [1]. However, the optimal features fluctuate depending on weather conditions; thus, choosing a single set of fixed features under all circumstances will result in a sub-optimal solution. Consequently, it is essential to develop a framework for predicting solar generation that is adaptable to changing weather conditions. This study aims to build a dynamic model for solar forecasting based on Deep Reinforcement Learning (DRL). The developed model yields optimal features for day-ahead or hour-ahead solar irradiance forecasting that are adapted to different weather patterns.

To demonstrate the new ideas proposed in this paper, we will first discuss the existing applications of Reinforcement Learning (RL) in generation forecasting. Current applications can be grouped into three categories: 1) optimizing the parameters of existing forecasting models [2], [3]; 2) optimizing time-series forecasting results [4]; 3) real-time selection of optimal predictive models [5], [6]. The authors in [2], [3] optimized the initial parameters of an RL-based neural network (NN) predictive model to avoid local minima when training a NN model. A hybrid model for short-term wind speed forecasting is developed in [4], which combines Empirical Wavelet Transform (EWT), Deep Network, and RL for improved forecast results. Upon decomposing the original data into different sub-data, RL determines the best forecasting results among the results from each sub-data. However, this approach necessitates a significant amount of computing power, whereas more straightforward probabilistic methods, such as the Bayesian approach, can achieve similar goals. Alternatively, in [5], [6] the authors proposed using several forecast models, each generating a different forecast result. An RL agent determines the best model depending on real-time conditions. In the aforementioned studies, RL has been utilized solely to improve the accuracy of the existing forecast models. This improvement comes at the cost of increased computational expense, only to result in a slight improvement in accuracy. This paper develops a fundamentally different approach to utilizing RL to reduce the computational burden of data-driven forecast models.

RL has proven to be an effective tool for feature selection [7], [8], [9]. However, its performance is limited in higher dimensions, such as those anticipated in solar irradiance prediction. Combining RL and Deep Learning for advanced DRL-based feature selection provides the benefit of reliably capturing minimal discriminating features for solar irradiance forecasting, reducing computational cost, and improving forecast performance. The deployment of DRL also allows dynamic feature selection, which implies that the optimal features change according to the conditions at the time of the forecast. As indicated in Fig. 1, the optimal dynamic features are used to forecast solar irradiance.



Fig. 1. Structure of the developed DRL-based dynamic feature selection method for solar irradiance forecasting.

The case studies presented in this paper have shown that the optimal features for forecasting solar irradiance during rainy conditions differ from those for sunny days. These results motivate the objective sought in this paper, which is to identify the minimum number of features for different weather patterns, and explore the feasibility of extending DRL for this purpose.

The main contributions of this paper can be listed as follows:

- 1) Developing a novel DRL-based method to identify a reduced set of optimal data for the prediction of solar irradiance. The optimal data used for prediction change dynamically, based on the local weather conditions;
- 2) The developed model can dramatically reduce the required data volume for an accurate forecast. Unlike traditional Artificial Neural Network (ANN)-based forecast models, the method presented in this paper generates similar forecast accuracy with much fewer data;
- 3) Case studies using real-world data demonstrate that the developed feature selection methodology strongly adapts to various weather conditions.

The rest of this paper is organized as follows. The state-of-the-art methods in solar generation forecasting are discussed in Section II. Details of the developed DRL-based model for solar irradiance forecasting are discussed in Section III. Case studies are presented in Section IV, followed by conclusions and future research in Section V.

II. STATE-OF-THE-ART METHODS IN SOLAR GENERATION FORECASTING

Numerous recent efforts have aimed to forecast solar irradiance, which can be grouped into two main categories: 1) physics-based and Machine Learning (ML)-based methods. Physics-based models are classified into three main categories: models based on cloud imagery [11], models based on satellite data [12], and numerical weather prediction (NWP) models [13]. Nevertheless, the forecasting effectiveness of the physics-based models is limited by the volume of accessible data, i.e., the forecast efficiency is deficient since a considerable amount of raw data is required.

ML-based approaches have recently become common to estimate solar irradiance with large-scale historical data [14]. Among the existing methods, supervised learning, unsupervised learning, and RL are three main categories of interest in the research community. In terms of the supervised learning methods, Support Vector Machine (SVM), Regression, and Hidden Markov Model (HMM) are compared by the authors in [15] with diverse datasets from different locations for short-term solar irradiance forecasting. Similar comparisons are carried out in [16]

Reinforcement Forecasting Weather

James C. Spall



Reinforcement Forecasting Weather:

The Role of AI in Climate Research: Predicting the Future Ahmed Musa ,2025-01-03 Explore the intersection of technology and environmental science in *The Role of AI in Climate Research Predicting the Future* This groundbreaking book reveals how artificial intelligence is transforming our ability to understand predict and respond to the complexities of climate change From advanced climate modeling to real time data analysis AI is revolutionizing the way researchers study our planet Learn how machine learning algorithms are uncovering hidden patterns in vast datasets enabling more accurate predictions of extreme weather events sea level rise and ecosystem changes Discover how AI driven tools are being used to optimize renewable energy systems track deforestation and measure carbon emissions with unprecedented precision Packed with compelling case studies and insights from leading scientists and technologists this book highlights the challenges and opportunities of integrating AI into climate research It also delves into ethical considerations ensuring that technology serves as a force for good in the fight against global warming Whether you re a scientist policymaker or tech enthusiast *The Role of AI in Climate Research* offers a clear engaging look at the innovations shaping our understanding of the planet and empowering humanity to build a sustainable future

Introduction to Stochastic Search and Optimization James C. Spall,2005-02-25 Unique in its survey of the range of topics Contains a strong interdisciplinary format that will appeal to both students and researchers Features exercises and web links to software and data sets

Adaptive Artificial Intelligence P. Pavan Kumar,Grandhi Suresh Kumar,Ajay Kumar Jena,Sandeep Kumar Panda,S. Balamurugan,2025-09-30 Master the next frontier of technology with this book which provides an in depth guide to adaptive artificial intelligence and its ability to create flexible self governed systems in dynamic industries Adaptive artificial intelligence represents a significant advancement in the development of AI systems particularly within various industries that require robust flexible and responsive technologies Unlike traditional AI which operates based on pre defined models and static data adaptive AI is designed to learn and evolve in real time making it particularly valuable in dynamic and unpredictable environments This capability is increasingly important in disciplines such as autonomous systems healthcare finance and industrial automation where the ability to adapt to new information and changing conditions is crucial In industry development adaptive AI drives innovation by enabling systems that can continuously improve their performance and decision making processes without the need for constant human intervention This leads to more efficient operations reduced downtime and enhanced outcomes across sectors As industries increasingly rely on AI for critical functions the adaptive capability of these systems becomes a cornerstone for achieving higher levels of automation reliability and intelligence in technological solutions Readers will find the book Introduces the emerging concept of adaptive artificial intelligence Explores the many applications of adaptive artificial intelligence across various industries Provides comprehensive coverage of reinforcement learning for different domains Audience Research scholars IT professionals engineering students network administrators artificial intelligence and

deep learning experts and government research agencies looking to innovate with the power of artificial intelligence

Artificial Intelligence in Forecasting Sachi Mohanty, Preethi Nanjundan, Tejaswini Kar, 2024-07-19 Forecasting deals with the uncertainty of the future To be effective forecasting models should be timely available accurate reliable and compatible with existing database Accurate projection of the future is of vital importance in supply chain management inventory control economic condition technology growth trend social change political change business weather forecasting stock price prediction earthquake prediction etc AI powered tools and techniques of forecasting play a major role in improving the projection accuracy The software running AI forecasting models use machine learning to improve accuracy The software can analyse the past data and can make better prediction about the future trends with higher accuracy and confidence that favours for making proper future planning and decision In other words accurate forecasting requires more than just the matching of models to historical data The book covers the latest techniques used by managers in business today discover the importance of forecasting and learn how it is accomplished Readers will also be familiarised with the necessary skills to meet the increased demand for thoughtful and realistic forecasts

Novel AI Applications for Advancing Earth Sciences Yadav, Sudesh, Yadav, Satya Prakash, Raj, Pethuru, Tiwari, Prabhakar, Albuquerque, Victor Hugo C. de, 2023-12-29 The Earth Sciences industry faces a new challenge the need for accurate efficient and reliable methods to monitor and predict geological phenomena and environmental changes As climate change earthquakes and other natural disasters become more frequent and severe the necessity for advanced tools and techniques is paramount Traditional methods often fall short in providing the precision and speed required to address these critical issues Geologists and earth scientists who are grappling with the urgent problem of utilizing artificial intelligence AI to revolutionize their field will find the solution within the pages of Novel AI Applications for Advancing Earth Sciences This book offers the research community concepts expanding upon the fusion of AI technology with earth sciences By leveraging advanced AI tools such as convolutional neural networks support vector machines artificial neural networks and the potential of remote sensing satellites this book transforms the identification of geological features geological mapping soil classification and gas detection Scientists can now predict earthquakes and assess the probability of climate change with unprecedented accuracy Additionally the book explains how the optimization of algorithms for specific tasks substantially reduces the time complexity of earth observations leading to an unprecedented leap in accuracy and efficiency

Wind Forecasting in Railway Engineering Hui Liu, 2021-06-17 Wind Forecasting in Railway Engineering presents core and leading edge technologies in wind forecasting for railway engineering The title brings together wind speed forecasting and railway wind engineering offering solutions from both fields Key technologies are presented along with theories modeling steps and comparative analyses of forecasting technologies Each chapter presents case studies and applications including typical applications and key issues analysis of wind field characteristics optimization methods for the placement of a wind anemometer single point time series along railways deep learning algorithms on single

point wind forecasting reinforcement learning algorithms ensemble single point wind forecasting methods spatial wind and data driven spatial temporal wind forecasting algorithms This important book offers practical solutions for railway safety by bringing together the latest technologies in wind speed forecasting and railway wind engineering into a single volume Presents the core technologies and most advanced developments in wind forecasting for railway engineering Gives case studies and experimental designs demonstrating real world applications Introduces cutting edge deep learning and reinforcement learning methods Combines the latest thinking from wind engineering and railway engineering Offers a complete solution to wind forecasting in railway engineering for the safety of running trains

Text Mining and Sentiment Analysis in Climate Change and Environmental Sustainability Bansal, Rohit, Rabby, Fazla, Sharma, Ridhima, Parwani, Dalima, Gupta, Arti, 2024-10-04 With the rising need to address shifting global temperatures precipitation patterns and atmospheric conditions text mining and sentiment analysis play a crucial role in managing climate change and promoting environmental sustainability These techniques provide valuable insights to support decision making stakeholder engagement risk management policymaking and corporate communication efforts to address the changing climate and respond to important crises Further research into text mining and sentiment analysis is necessary to understand the public's perception on climate change address corporate concerns and identify emerging risks associated with the environment Text Mining and Sentiment Analysis in Climate Change and Environmental Sustainability provides updated information on the emergence and role of text mining and sentiment analysis in predicting climate change and promoting environmental sustainability It covers emerging trends involved in the nexus of text mining sentiment analysis climate change and environmental sustainability This book covers topics such as environmental science sustainable development and machine learning and is a useful resource for climatologists environmental scientists computer engineers data scientists academicians and researchers

AI Frameworks and Tools for Software Development Patel, Rahul K., 2025-04-29 The rapid advancements in artificial intelligence AI are transforming how organizations approach software development creating both opportunities and challenges in the workplace As AI tools become more mainstream understanding their role as well as the responsibilities of users is crucial for ensuring their effective integration into software development processes A clear framework for introducing AI in Information Systems Management can significantly enhance the efficiency and effectiveness of development teams and their external stakeholders AI Frameworks and Tools for Software Development presents the best practices research findings and guidelines for using AI frameworks and tools in software development It provides a holistic understanding of these key processes functions and workflows that are essential for effective Software Development Lifecycle SDLC Covering topics such as industrial automation knowledge management and code reusability this book is an excellent resource for software developers computer scientists professionals researchers scholars academicians and more

6TH INTERNATIONAL ENGINEERING AND TECHNOLOGY MANAGEMENT SUMMIT 2024 BAŞKENT

ÜNİVERSİTESİ,2024-12-27 The 6th INTERNATIONAL ENGINEERING AND TECHNOLOGY MANAGEMENT SUMMIT ETMS 2024 organized by Ba kent University was held in Ankara T rkiye from October 17 19 2024 This year s theme Engineering and Technology Management in Defense Industry provided a critical platform for discussing the challenges and opportunities in this rapidly evolving field ETMS 2024 brought together researchers professionals and industry leaders to explore topics such as advanced weapon systems surveillance technologies and strategic infrastructure management The summit examined the societal and environmental impacts of defense technologies while fostering innovative strategies to address emerging global security challenges The event featured insightful keynote presentations including Prof Beata Mrugalska Poznan University of Technology Poland who discussed Human Perspective on Sustainable Logistics 4 0 Trends Challenges Methods and Best Practices Prof Dr Tu rul Daim Portland State University USA who explored Policies for Emerging Technologies Prof Dr Markus A Launer Ostfalia University of Applied Sciences Germany who presented on International Technology Management These distinguished speakers alongside other esteemed participants contributed to a vibrant exchange of ideas addressing the evolving role of engineering and technology management in the defense sector We extend our heartfelt gratitude to all contributors including keynote and invited speakers authors session chairs and the organizing committee for their dedication to making ETMS 2024 a resounding success This proceedings book includes the abstracts and extended abstracts presented at the summit reflecting the diverse expertise and innovative approaches shared during the event We hope it serves as a valuable resource for all those interested in advancing the fields of engineering and technology management

Predicting Natural Disasters With AI and Machine Learning Satishkumar, D.,Sivaraja, M.,2024-02-16 In a world where the relentless force of natural and man made disasters threatens societies the need for effective disaster management has never been more critical Predicting Natural Disasters With AI and Machine Learning addresses the challenges of disasters and charts a path toward proactive solutions by applying artificial intelligence AI and machine learning ML This book begins by interpreting the nature of disasters clearly distinguishing between natural and man made hazards It delves into the intricacies of disaster risk reduction DRR emphasizing the human contribution to most disasters Recognizing the necessity for a multifaceted approach the book advocates the four R s Risk Mitigation Response Readiness Response Execution and Recovery as integral components of comprehensive disaster management This book explores various AI and ML applications designed to predict manage and mitigate the impact of natural disasters focusing on natural language processing and early warning systems The contrast between weak AI simulating human intelligence for specific tasks and strong AI capable of autonomous problem solving is thoroughly examined in the context of disaster management Its chapters systematically address critical issues including real world data handling challenges related to data accessibility completeness security privacy and ethical considerations

Decision Systems Pallavi Vijay Chavan,Nisha Balani,Ramchandra Mangrulkar,Sangita Santosh Chaudhari,2026-01-01 Decision Systems Integrating Machine Learning Fuzzy Logic and

Artificial Neural Networks provides readers with a comprehensive understanding of the principal techniques used to build effective decision making systems This book covers the fundamental principles and concepts of machine learning fuzzy logic and artificial neural networks and explains how these techniques can be used to build intelligent decision making systems that can learn from data reason and make accurate predictions The book also presents a wide range of applications of machine learning fuzzy logic and artificial neural networks in various domains such as engineering medicine finance and robotics The book also provides practical guidance on how to design and implement effective decision making systems using these techniques and discusses the potential challenges and limitations of machine learning fuzzy logic and artificial neural networks and how to overcome them The book provides a stepwise approach to provide readers with the knowledge and tools they need to build intelligent decision making systems including a robust introduction to the mathematical concepts and principles necessary to understand the concepts and applications of Decision Systems and Machine Learning algorithms Next the book provides readers with an in depth explanation and demonstration of two of the major machine learning techniques Fuzzy Logic Fuzzy Set Theory and Artificial Neural Networks followed by an in depth look at more advanced topics that play essential roles in making machine learning algorithms more useful in practice including creating full fledged Recurrent Networks and their mathematical foundations Associative Memories and Deep Learning networks such as Convolutional Neural Networks Generative Adversarial Networks Radial Basis Function Networks Multilayer Perceptrons and Self Organizing Maps The lynchpin of the book provides readers with an understanding of how the various types of techniques can be integrated to create dynamic Decision Systems The book wraps up with coverage of challenges and opportunities in Decision Systems along with real world applications of Decision Systems with case studies in healthcare finance education social media and agriculture Covers foundational concepts advanced theories and real world applications ensuring readers gain a thorough understanding of Decision Systems Presents the foundational mathematics behind the various techniques covered including stepwise mathematical formula development R and Python code syntax listings for the worked examples and stepwise methods and procedures for application algorithms Illustrates how fuzzy logic and neural networks can be integrated with other disciplines like machine learning optimization and data science to create powerful hybrid solutions

Hands-On Artificial Intelligence with Java for Beginners Nisheeth Joshi, 2018-08-31 Build train and deploy intelligent applications using Java libraries Key Features Leverage the power of Java libraries to build smart applications Build and train deep learning models for implementing artificial intelligence Learn various algorithms to automate complex tasks Book Description Artificial intelligence AI is increasingly in demand as well as relevant in the modern world where everything is driven by technology and data AI can be used for automating systems or processes to carry out complex tasks and functions in order to achieve optimal performance and productivity Hands On Artificial Intelligence with Java for Beginners begins by introducing you to AI concepts and algorithms You will learn about various Java based libraries and frameworks that can be

used in implementing AI to build smart applications In addition to this the book teaches you how to implement easy to complex AI tasks such as genetic programming heuristic searches reinforcement learning neural networks and segmentation all with a practical approach By the end of this book you will not only have a solid grasp of AI concepts but you ll also be able to build your own smart applications for multiple domains What you will learn Leverage different Java packages and tools such as Weka RapidMiner and Deeplearning4j among others Build machine learning models using supervised and unsupervised machine learning techniques Implement different deep learning algorithms in Deeplearning4j and build applications based on them Study the basics of heuristic searching and genetic programming Differentiate between syntactic and semantic similarity among texts Perform sentiment analysis for effective decision making with LingPipe Who this book is for Hands On Artificial Intelligence with Java for Beginners is for Java developers who want to learn the fundamentals of artificial intelligence and extend their programming knowledge to build smarter applications

Artificial Intelligence, Big Data, IOT and Block Chain in Healthcare: From Concepts to Applications Yousef Farhaoui,2024-08-17 This book covers a wide range of topics related to the integration of Artificial Intelligence Big Data IoT and Blockchain From Concepts to Applications It begins by establishing a solid foundation and introducing the concepts and principles of each technology The subsequent chapters delve into the various applications and use cases providing readers with real world examples of how AI IoT and Blockchain can be leveraged to address key challenges in Smart Environments Data is becoming an increasingly decisive resource in modern societies economies and governmental organizations Data science Artificial Intelligence and Smart Environments inspire novel techniques and theories drawn from mathematics statistics information theory computer science and social science This book reviews the state of the art of big data analysis Artificial Intelligence and Smart Environments It includes issues that pertain to signal processing probability models machine learning data mining databases data engineering pattern recognition visualization predictive analytics data warehousing data compression computer programming smart city etc The papers in this book were the outcome of research conducted in this field of study The latter makes use of applications and techniques related to data analysis in general and big data and smart cities in particular The authors hope that this book serves as a valuable resource and guide for readers empowering them to navigate the intricate landscape of Artificial Intelligence IoT and Blockchain in Smart Environments Let the authors embark on this transformative journey together as the authors explore the concepts and applications that hold the potential to shape the future of Smart Environments The book appeals to advanced undergraduate and graduate students post doctoral researchers lecturers and industrial researchers as well as anyone interested in big data analysis and Artificial Intelligence

[The 8th International Conference on Advanced Machine Learning and Technologies and Applications \(AMLTA2022\)](#) Aboul Ella Hassanien,Rawya Y. Rizk,Václav Snášel,Rehab F. Abdel-Kader,2022-04-16 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2022 held in Cairo Egypt during May 5 7

2022 The 8th edition of AMLTA will be organized by the Scientific Research Group in Egypt SRGE Egypt collaborating with Port Said University Egypt and VSB Technical University of Ostrava Czech Republic AMLTA series aims to become the premier international conference for an in depth discussion on the most up to date and innovative ideas research projects and practices in the field of machine learning technologies and their applications The book covers current research on advanced machine learning technology including deep learning technology sentiment analysis cyber physical system IoT and smart cities informatics and AI against COVID 19 data mining power and control systems business intelligence social media digital transformation and smart systems

Estimating Windspeeds for Predicting Wildland Fire Behavior Frank A. Albini, 1979

AI IN EVERYDAY LIFE: TRANSFORMING SOCIETY Dr. Abhinandan Singh Dandotiya, Dr. Shashi Kant Gupta, Dr. Nidhi Dandotiya, Mr. Palash Sharma, 2024-09-18

Artificial Intelligence AI has rapidly woven itself into the fabric of everyday life transforming how society operates in profound ways Its integration into various aspects of daily routines has led to increased efficiency and convenience from personalized recommendations on streaming platforms to automated customer service AI s ability to analyze vast amounts of data and learn from it has enabled more intelligent decision making processes enhancing productivity across industries This technological advancement has also facilitated the development of smart homes and cities where AI driven systems manage everything from energy consumption to traffic flow creating environments that are more responsive to human needs Beyond convenience AI is reshaping the workforce and education requiring societies to adapt to new modes of work and learning Automation is taking over repetitive tasks freeing up human workers to focus on more complex and creative endeavors However this shift also raises concerns about job displacement and the need for reskilling In education AI driven personalized learning systems are providing tailored educational experiences helping to bridge gaps in knowledge and cater to individual learning styles These changes are prompting a reevaluation of traditional educational models and career paths highlighting the need for continuous learning and adaptability On a broader scale AI is playing a critical role in addressing global challenges such as climate change healthcare and resource management In healthcare AI powered diagnostic tools are improving the accuracy and speed of disease detection leading to better patient outcomes In environmental management AI is being used to monitor and predict environmental changes aiding in the development of sustainable practices As AI continues to evolve its impact on society will only deepen presenting both opportunities and challenges that require careful consideration and responsible governance to ensure that its benefits are equitably distributed

Advanced Machine Learning Algorithms Mr. Digantkumar Parmar, Ashrumochan Mohanty, Dr Jay Dave, Dr. Manvi Breja, 2025-05-22

By enabling systems to do complicated tasks such as image recognition natural language comprehension autonomous decision making and predictive analytics with surprising precision and flexibility advanced machine learning algorithms represent the leading edge of artificial intelligence These algorithms empower computers to accomplish these tasks Deep learning ensemble learning reinforcement learning Bayesian approaches and evolutionary

algorithms are some of the advanced paradigms that are included into these algorithms To manage large scale high dimensional and frequently noisy data these algorithms go beyond the limits of classic statistical methods A wide variety of fields including computer vision and voice processing drug discovery and financial modelling have been revolutionized as a result of the creation of designs such as Convolutional Neural Networks CNNs Recurrent Neural Networks RNNs Transformers and Graph Neural Networks GNNs The limitations of what computers are capable of learning with minimum supervision and data are being pushed further by meta learning self supervised learning and generative models such as GANs and VAEs Interpretability data efficiency robustness and ethical deployment continue to be challenging areas notwithstanding the progress that has been made The fundamental ideas applications and ongoing research trends in advanced machine learning algorithms are discussed in this book The book also highlights the transformational potential of these algorithms as well as the crucial concerns that need to be addressed in order to guarantee that they are used in real world systems in a responsible equitable and safe manner

Progress in Artificial Intelligence José Valente de Oliveira, João Leite, João Rodrigues, João Dias, Pedro Cardoso, 2025-09-15 This two volume set LNAI 16121 16122 constitutes the proceedings of the 24th EPIA Conference on Progress in Artificial Intelligence EPIA 2025 held in Faro Portugal during October 1 3 2025 The 76 full papers included in these proceedings were carefully reviewed and selected from 158 submissions They were organized in topical sections as follows Part I Artificial Intelligence in Medicine AIM AI for Architecture Engineering and Conservation AI4AEC Knowledge Discovery and Business Intelligence KDBI Generative AI Foundations and Applications GenAI Artificial Intelligence Theory Methods and Applications AITMA Ethics and Responsibility in AI ERAI Part II Artificial Intelligence for Industry and Societies AI4IS Artificial Intelligence and Law AIL Artificial Intelligence and IoT in Agriculture AIoTA Artificial Intelligence in Transportation Systems AITS Natural Language Processing Text Mining and Applications NLP TeMA Ambient Intelligence and Affective Environments AmIA AI and Creativity AIC Artificial Intelligence in Power and Energy Systems AIPES Fuzzy Data Analysis and Applications FDA

Hands-on Supervised Learning with Python Gnana Lakshmi T C, Madeleine Shang, 2021-01-06 Hands On ML problem solving and creating solutions using Python KEY FEATURES _Introduction to Python Programming _Python for Machine Learning _Introduction to Machine Learning _Introduction to Predictive Modelling Supervised and Unsupervised Algorithms _Linear Regression Logistic Regression and Support Vector Machines DESCRIPTION You will learn about the fundamentals of Machine Learning and Python programming post which you will be introduced to predictive modelling and the different methodologies in predictive modelling You will be introduced to Supervised Learning algorithms and Unsupervised Learning algorithms and the difference between them We will focus on learning supervised machine learning algorithms covering Linear Regression Logistic Regression Support Vector Machines Decision Trees and Artificial Neural Networks For each of these algorithms you will work hands on with open source datasets and use python programming to program the machine

learning algorithms You will learn about cleaning the data and optimizing the features to get the best results out of your machine learning model You will learn about the various parameters that determine the accuracy of your model and how you can tune your model based on the reflection of these parameters

WHAT WILL YOU LEARN

- _Get a clear vision of what is Machine Learning and get familiar with the foundation principles of Machine learning
- _Understand the Python language specific libraries available for Machine learning and be able to work with those libraries
- _Explore the different Supervised Learning based algorithms in Machine Learning and know how to implement them when a real time use case is presented to you
- _Have hands on with Data Exploration Data Cleaning Data Preprocessing and Model implementation
- _Get to know the basics of Deep Learning and some interesting algorithms in this space
- _Choose the right model based on your problem statement and work with EDA techniques to get good accuracy on your model

WHO THIS BOOK IS FOR This book is for anyone interested in understanding Machine Learning Beginners Machine Learning Engineers and Data Scientists who want to get familiar with Supervised Learning algorithms will find this book helpful

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[A Handbook of Mathematical Models with Python](#) Dr. Ranja Sarkar, 2023-08-30 Master the art of mathematical modeling through practical examples use cases and machine learning techniques

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What you will learn

- Understand core concepts of mathematical models and their relevance in solving problems
- Explore various

approaches to modeling and learning using Python Work with tested mathematical tools to gather meaningful insights Blend mathematical modeling with machine learning to find optimal solutions to business problems Optimize ML models built with business data apply them to understand their impact on the business and address critical questions Apply mathematical optimization for data scarce problems where the objective and constraints are known Who this book is for If you are a budding data scientist seeking to augment your journey with mathematics this book is for you Researchers and R D scientists will also be able to harness the concepts covered to their full potential To make the best use of this book a background in linear algebra differential equations basics of statistics data types data structures and numerical algorithms will be useful

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