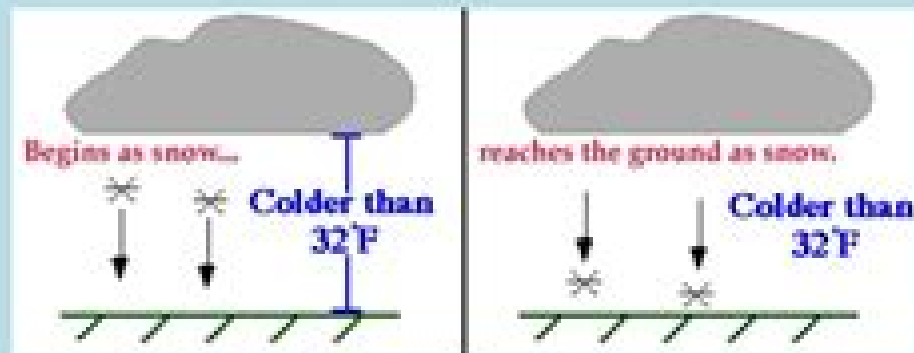
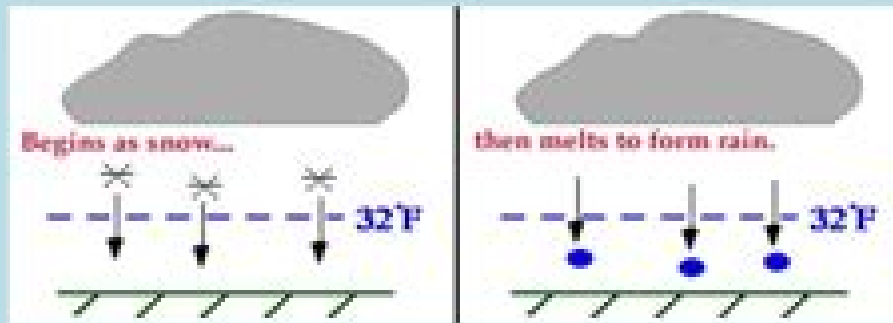


# Predicting Rain Vs. Snow



# Predicting Rain

**Katrin Zwirgmaier**



## Predicting Rain:

**DATA SCIENCE FOR RAIN CLASSIFICATION AND PREDICTION WITH PYTHON GUI** Vivian Siahaan, Rismon Hasiholan Sianipar, 2023-06-29 The dataset used in this book consists of daily weather observations from various locations in Australia spanning a 10 year period The target variable is RainTomorrow which predicts whether it will rain the following day The dataset comprises 23 attributes including DATE The date of observation LOCATION The name of the weather station s location MINTEMP The minimum temperature in degrees Celsius MAXTEMP The maximum temperature in degrees Celsius RAINFALL The amount of rainfall recorded for the day in mm EVAPORATION Class A pan evaporation in mm for the 24 hours until 9 am SUNSHINE The number of hours of bright sunshine in a day WINDGUSTDIR The direction of the strongest wind gust in the 24 hours until midnight WINDGUSTSPEED The speed of the strongest wind gust in km h in the 24 hours until midnight WINDDIR9AM The direction of the wind at 9 am The project utilizes several machine learning models including K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling techniques namely raw scaling MinMax scaling and standard scaling are employed These machine learning models are utilized to analyze the weather attributes and make predictions about the occurrence of rainfall Each model has its strengths and may perform differently based on the characteristics of the dataset Additionally a GUI is developed using PyQt5 to visualize cross validation scores predicted values versus true values confusion matrix learning curves decision boundaries model performance scalability training loss and training accuracy These visualizations within the GUI provide a comprehensive understanding of the model s performance learning behavior decision making boundaries and the quality of its predictions Users can leverage these insights to fine tune the model and improve its accuracy and generalization capabilities In addition the GUI developed using PyQt5 also includes the capability to visualize features on a year wise and month wise basis This functionality allows users to explore the variations and trends in different weather attributes across different years and months With the year wise and month wise visualizations users can gain insights into the temporal patterns and trends present in the weather data It enables them to observe how specific attributes change over time and across different seasons providing a deeper understanding of the weather patterns and their potential influence on rainfall occurrences

*The Use of Satellite Microwave Rainfall Measurements to Predict Eastern North Pacific Tropical Cyclone Intensity* Derek A. West, 1998 This proposed study examines the potential use of satellite passive microwave rainfall measurements derived from Special Sensor Microwave Imager SSM I radiometers onboard the Defense Meteorological Satellite Program DMSP constellation to improve eastern North Pacific Ocean tropical cyclone intensity change forecasting techniques Relationships between parameters obtained from an operational SSM I based rainfall measuring algorithm and 12 24 36 48 60 and 72 hour intensity changes from best track data records are examined in an effort to identify statistically significant predictors of intensity change

Correlations between rainfall parameters and intensity change are analyzed using tropical cyclone data from three years 1992 to 1994 Stratifications based upon tropical cyclone intensity rate of intensity change climatology translation landfall and synoptic scale environmental forcing variables are studied to understand factors that may affect a statistical relationship between rainfall parameters and intensity change The predictive skill of statistically significant rainfall parameters is assessed by using independent tropical cyclone data from another year 1995 In addition case studies on individual tropical cyclones are conducted to gain insight on predictive performance and operational implementation issues *Statistical Data Analysis for the Physical Sciences* Adrian Bevan, 2013-05-09 A modern introduction to statistics for undergraduates in physics with worked examples and case studies to illustrate techniques presented *Model Predictive Control of Wastewater Systems* Carlos Ocampo-Martinez, 2010-10-01 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology has an impact on all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination The water and wastewater industry has undergone many changes in recent years Of particular importance has been a renewed emphasis on improving resource management with tighter regulatory controls setting new targets on pricing industry efficiency and loss reduction for both water and wastewater with more stringent environmental discharge conditions for wastewater Meantime the demand for water and wastewater services grows as the population increases and wishes for improved living conditions involving among other items domestic appliances that use water Consequently the installed infrastructure of the industry has to be continuously upgraded and extended and employed more effectively to accommodate the new demands both in throughput and in meeting the new regulatory conditions Investment in fixed infrastructure is capital intensive and slow to come on stream One outcome of these changes and demands is that the industry is examining the potential benefits of and in many cases using more advanced control systems **Appropriating the Weather** Robert Marc Friedman, 1993-09 Friedman analyzes the revolution in the theory and practice of meteorology initiated by Vilhelm Bjerknes and his collaborators **Monthly Weather Review**, 1894 Meteorology, Weather, and Methods of Forecasting, Description of Meteorological Instruments and River Flood Predictions in the United States Thomas Russell, 1895 **Data Science for Business With R** Jeffrey S. Saltz, Jeffrey M. Stanton, 2021-02-14 Data Science for Business with R written by Jeffrey S Saltz and Jeffrey M Stanton focuses on the concepts foundational for students starting a business analytics or data science degree program To keep the book practical and applied the authors feature a running case using a global airline business s customer survey dataset to illustrate how to turn data in business decisions in addition to numerous examples throughout To aid in

usability beyond the classroom the text features full integration of freely available R and RStudio software one of the most popular data science tools available Designed for students with little to no experience in related areas like computer science the book chapters follow a logical order from introduction and installation of R and RStudio working with data architecture undertaking data collection performing data analysis and transitioning to data archiving and presentation Each chapter follows a familiar structure starting with learning objectives and background following the basic steps of functions alongside simple examples applying these functions to the case study and ending with chapter challenge questions sources and a list of R functions so students know what to expect in each step of their data science course Data Science for Business with R provides readers with a straightforward and applied guide to this new and evolving field

**Physics for Animators** Michele Bousquet, 2015-12-07 Achieving believable motion in animation requires an understanding of physics that most of us missed out on in art school Although animators often break the laws of physics for comedic or dramatic effect you need to know which laws you're breaking in order to make it work And while large studios might be able to spend a lot of time and money testing different approaches or hiring a physics consultant smaller studios and independent animators have no such luxury This book takes the mystery out of physics tasks like character motion light and shadow placement explosions ocean movement and outer space scenes making it easy to apply realistic physics to your work Physics concepts are explained in animator's terms relating concepts specifically to animation movement and appearance Complex mathematical concepts are broken down into clear steps you can follow to solve animation problems quickly and effectively Uniting theory and practice author Michele Bousquet teaches animators how to swiftly and efficiently create scientifically accurate scenes and fix problem spots and how and when to break the laws of physics Ideal for everything from classical 2D animation to advanced CG special effects this book provides animators with solutions that are simple quick and powerful

*5 FIVE DATA SCIENCE PROJECTS FOR ANALYSIS, CLASSIFICATION, PREDICTION, AND SENTIMENT ANALYSIS WITH PYTHON GUI* Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-04-29 PROJECT 1 SUPERMARKET SALES ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project consists of the growth of supermarkets with high market competitions in most populated cities The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data Predictive data analytics methods are easy to apply with this dataset Attribute information in the dataset are as follows Invoice id Computer generated sales slip invoice identification number Branch Branch of supercenter 3 branches are available identified by A B and C City Location of supercenters Customer type Type of customers recorded by Members for customers using member card and Normal for without member card Gender Gender type of customer Product line General item categorization groups Electronic accessories Fashion accessories Food and beverages Health and beauty Home and lifestyle Sports and travel Unit price Price of each product in Quantity Number of products purchased by customer Tax 5% tax fee for customer buying Total Total price including tax Date Date of purchase

Record available from January 2019 to March 2019 Time Purchase time 10am to 9pm Payment Payment used by customer for purchase 3 methods are available Cash Credit card and Ewallet COGS Cost of goods sold Gross margin percentage Gross margin percentage Gross income Gross income and Rating Customer stratification rating on their overall shopping experience On a scale of 1 to 10 In this project you will perform predicting rating using machine learning The machine learning models used in this project to predict clusters as target variable are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM Gradient Boosting XGB and MLP Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

**PROJECT 2 DETECTING CYBERBULLYING TWEETS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI** As social media usage becomes increasingly prevalent in every age group a vast majority of citizens rely on this essential medium for day to day communication Social media s ubiquity means that cyberbullying can effectively impact anyone at any time or anywhere and the relative anonymity of the internet makes such personal attacks more difficult to stop than traditional bullying On April 15th 2020 UNICEF issued a warning in response to the increased risk of cyberbullying during the COVID 19 pandemic due to widespread school closures increased screen time and decreased face to face social interaction The statistics of cyberbullying are outright alarming 36 5% of middle and high school students have felt cyberbullied and 87% have observed cyberbullying with effects ranging from decreased academic performance to depression to suicidal thoughts In light of all of this this dataset contains more than 47000 tweets labelled according to the class of cyberbullying Age Ethnicity Gender Religion Other type of cyberbullying and Not cyberbullying The data has been balanced in order to contain 8000 of each class The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier LSTM and CNN Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy

**PROJECT 3 HIGHER EDUCATION STUDENT ACADEMIC PERFORMANCE ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI** The dataset used in this project was collected from the Faculty of Engineering and Faculty of Educational Sciences students in 2019 The purpose is to predict students end of term performances using ML techniques Attribute information in the dataset are as follows Student ID Student Age 1 18 21 2 22 25 3 above 26 Sex 1 female 2 male Graduated high school type 1 private 2 state 3 other Scholarship type 1 None 2 25% 3 50% 4 75% 5 Full Additional work 1 Yes 2 No Regular artistic or sports activity 1 Yes 2 No Do you have a partner 1 Yes 2 No Total salary if available 1 USD 135 200 2 USD 201 270 3 USD 271 340 4 USD 341 410 5 above 410 Transportation to the university 1 Bus 2 Private car taxi 3 bicycle 4

Other Accommodation type in Cyprus 1 rental 2 dormitory 3 with family 4 Other Mother s education 1 primary school 2 secondary school 3 high school 4 university 5 MSc 6 Ph D Father s education 1 primary school 2 secondary school 3 high school 4 university 5 MSc 6 Ph D Number of sisters brothers if available 1 1 2 2 3 3 4 4 5 5 or above Parental status 1 married 2 divorced 3 died one of them or both Mother s occupation 1 retired 2 housewife 3 government officer 4 private sector employee 5 self employment 6 other Father s occupation 1 retired 2 government officer 3 private sector employee 4 self employment 5 other Weekly study hours 1 None 2

**Life on the Screen** Sherry Turkle,2011-04-26 Life on the Screen is a book not about computers but about people and how computers are causing us to reevaluate our identities in the age of the Internet We are using life on the screen to engage in new ways of thinking about evolution relationships politics sex and the self Life on the Screen traces a set of boundary negotiations telling the story of the changing impact of the computer on our psychological lives and our evolving ideas about minds bodies and machines What is emerging Turkle says is a new sense of identity as decentered and multiple She describes trends in computer design in artificial intelligence and in people s experiences of virtual environments that confirm a dramatic shift in our notions of self other machine and world The computer emerges as an object that brings postmodernism down to earth Satellite Communications Nazzareno

Diodato,2010-09-18 This study is motivated by the need to give the reader a broad view of the developments key concepts and technologies related to information society evolution with a focus on the wireless communications and geoinformation technologies and their role in the environment Giving perspective it aims at assisting people active in the industry the public sector and Earth science fields as well by providing a base for their continued work and thinking Advances in Natural

Computation, Fuzzy Systems and Knowledge Discovery Yong Liu,Lipo Wang,Liang Zhao,Zhengtao Yu,2019-11-06 This book discusses the recent advances in natural computation fuzzy systems and knowledge discovery Presenting selected peer reviewed papers from the 15th International Conference on Natural Computation Fuzzy Systems and Knowledge Discovery ICNC FSKD 2019 held in Kunming China from 20 to 22 July 2019 it is a useful resource for researchers including professors and graduate students as well as R D staff in industry The Signal and the Noise Nate Silver,2015-02-03 One of the more

momentous books of the decade The New York Times Book Review Nate Silver built an innovative system for predicting baseball performance predicted the 2008 election within a hair s breadth and became a national sensation as a blogger all by the time he was thirty He solidified his standing as the nation s foremost political forecaster with his near perfect prediction of the 2012 election Silver is the founder and editor in chief of the website FiveThirtyEight Drawing on his own groundbreaking work Silver examines the world of prediction investigating how we can distinguish a true signal from a universe of noisy data Most predictions fail often at great cost to society because most of us have a poor understanding of probability and uncertainty Both experts and laypeople mistake more confident predictions for more accurate ones But overconfidence is often the reason for failure If our appreciation of uncertainty improves our predictions can get better too

This is the prediction paradox The more humility we have about our ability to make predictions the more successful we can be in planning for the future In keeping with his own aim to seek truth from data Silver visits the most successful forecasters in a range of areas from hurricanes to baseball to global pandemics from the poker table to the stock market from Capitol Hill to the NBA He explains and evaluates how these forecasters think and what bonds they share What lies behind their success Are they good or just lucky What patterns have they unraveled And are their forecasts really right He explores unanticipated commonalities and exposes unexpected juxtapositions And sometimes it is not so much how good a prediction is in an absolute sense that matters but how good it is relative to the competition In other cases prediction is still a very rudimentary and dangerous science Silver observes that the most accurate forecasters tend to have a superior command of probability and they tend to be both humble and hardworking They distinguish the predictable from the unpredictable and they notice a thousand little details that lead them closer to the truth Because of their appreciation of probability they can distinguish the signal from the noise With everything from the health of the global economy to our ability to fight terrorism dependent on the quality of our predictions Nate Silver's insights are an essential read

**Evolution in Computational Intelligence** Vikrant Bhateja,Xin-She Yang,Marta Campos Ferreira,Sandeep Singh Sengar,Carlos M.

Travieso-Gonzalez,2023-11-20 The book presents the proceedings of the 11th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2023 held at Cardiff School of Technologies Cardiff Metropolitan University Cardiff Wales UK during April 11 12 2023 Researchers scientists engineers and practitioners exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines in the book This book is divided into two volumes It covers broad areas of information and decision sciences with papers exploring both the theoretical and practical aspects of data intensive computing data mining evolutionary computation knowledge management and networks sensor networks signal processing wireless networks protocols and architectures This book is a valuable resource for postgraduate students in various engineering disciplines

**Advanced AI and Data Science Applications** D. Sivabalaselvamani,G. Revathy,Ranjit Singh Sarban Singh,2025-09-25 Advanced AI and Data Science Applications explores how the latest developments in artificial intelligence AI and data science are transforming diverse domains The book blends theory and practice to serve as a roadmap to help readers understand how these cutting edge technologies are revolutionizing practices across various fields By providing a mix of theoretical insights and practical implementations the book offers a holistic understanding of advanced AI and data science applications Highlights of the book include Metaheuristic optimization techniques for solving complex AI model training challenges The impact of AI and data science on urban development Implementing AI for enhanced cybersecurity in industrial control systems A comparative study of traditional and AI based methods for English speech recognition Temporal dependency modeling in real time data streams using a deep learning model Predictive analytics for financial fraud detection and risk management Data science in



manufacturing for cost reduction and efficiency AI driven agricultural analytics Featuring such advanced modeling techniques as predictive modeling simulation and optimization algorithms the book presents innovative solutions that emphasize benefits and practicality With its emphasis on interdisciplinary applications it showcases successful projects that underscore the synergy between AI and data science domains empowering readers to harness the power of innovation for enhanced problem solving and efficiency in interdisciplinary realms **Applied Computational Intelligence M**

Sudha,2019-01-20 Applied Computational Intelligence presents comprehensive collection of algorithms computational methods implementation platform and experimental studies based on real world problems Addresses the benefits of computational Intelligence in decision support It will guide you with suitable examples on how to handle raw dataset and the methodologies of applied Computational Intelligence in today s challenging problems *Information and Communications Technologies* Tammam A. T. Benmusa,Mohamed Samir Elbuni,Ibrahim M. Saleh,Ahmed S. Ashur,Nabil M. Drawil,Issmail M. Ellabib,2024-06-29 This book constitutes the proceedings of the Second International Libyan Conference on Information and Communication Technologies ILCICT 2023 which took place in Tripoli Libya in September 4 6 2023 The 26 full papers were carefully reviewed and selected from 55 submissions The papers are organized in subject areas as follows communication systems computer and information systems image processing computer vision and internet of things Introduction to PCM

Telemetry Systems Stephen Horan,2017-09-19 Introduction to PCM Telemetry Systems Third Edition summarizes the techniques and terminology used in sending data and control information between users and the instruments that collect and process the data Fully revised it gives an overall systems introduction to the relevant topics in three primary areas system interfaces data transport timing and synchronization and data transmission techniques Integrating relevant information about the process at all levels from the user interface down to the transmission channel this will also include how designers apply relevant industry and government standards at each level in this process Homework problems are included at the end of each chapter **Contemporary Financial Intermediation** Stuart I. Greenbaum,Anjan V. Thakor,Arnoud W. A.

Boot,2019-05-14 Contemporary Financial Intermediation 4th Edition by Greenbaum Thakor and Boot continues to offer a distinctive approach to the study of financial markets and institutions by presenting an integrated portrait that puts information and economic reasoning at the core Instead of primarily naming and describing markets regulations and institutions as is common Contemporary Financial Intermediation explores the subtlety plasticity and fragility of financial institutions and credit markets In this new edition every chapter has been updated and pedagogical supplements have been enhanced For the financial sector the best preprofessional training explains the reasons why markets institutions and regulators evolve they do why we suffer recurring financial crises occur and how we typically react to them Our textbook demands more in terms of quantitative skills and analysis but its ability to teach about the forces shaping the financial world is unmatched Updates and expands a legacy title in a valuable field Holds a prominent position in a growing portfolio of

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