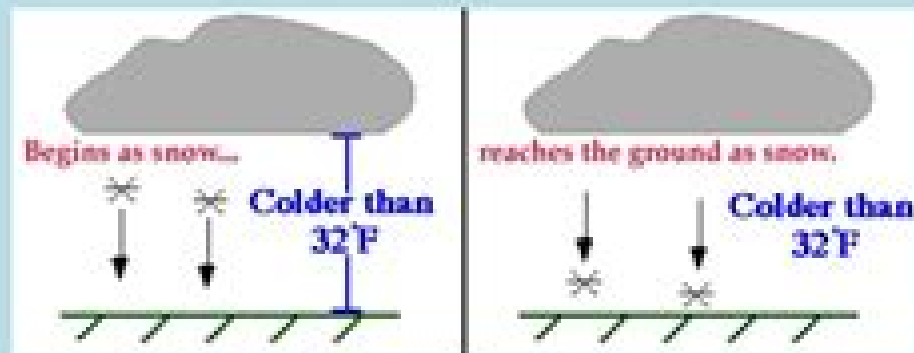
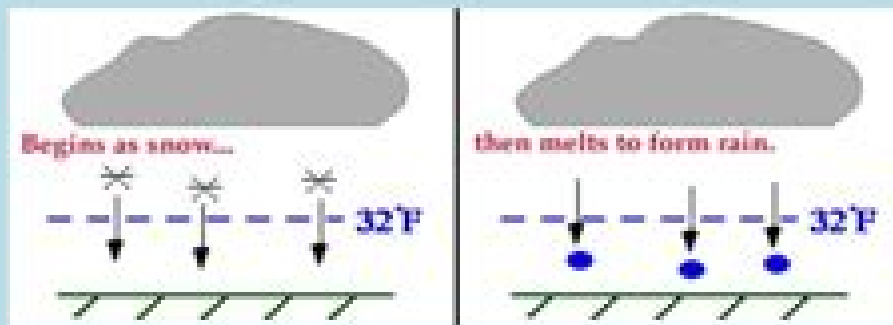


Predicting Rain Vs. Snow



Predicting Rain

Frederick William Cory



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

Advancing Rainfall Science from Observational Frontiers to AI-Driven Technology, 2025-09-24 This book brings together global insights on how technology innovation such as artificial intelligence AI is changing the way we study rainfall As extreme rain events become more frequent due to climate change traditional methods of observing predicting and managing related disasters are struggling to keep pace That is where this book steps in exploring how AI helps process large amounts of weather data identify patterns and make more accurate forecasts It covers key areas including improving rainfall measurements creating more reliable predictions and utilizing AI to reduce disaster risks What makes this book stand out is its focus on real world

applications connecting cutting edge AI tools with practical needs in fields such as flood management and water resource management With contributions from experts worldwide it provides a clear and collaborative perspective on how AI can enhance our ability to address rainfall challenges Whether you are a researcher student or professional working with weather and disasters this book provides easy to follow insights into the latest AI driven solutions that matter for our changing climate

Meteorology, Weather, and Methods of Forecasting, Description of Meteorological Instruments and River Flood Predictions in the United States Thomas Russell,1895

Climate Change and Rainfall Extremes in Africa Victor Ongoma,2025-04-21

Climate Change and Rainfall Extremes in Africa Occurrence Impacts and Adaptation provides the latest developments on extreme rainfall in Africa along with an analysis of current impacts future implications and community adaptations The book s chapters are organized into three parts 1 Understanding Rainfall Extremes 2 Regional Rainfall and Hydrological Extremes and 3 Prediction Impacts and Adaptation to Rainfall Extremes Specific sections examine rainfall variability in Africa and across the world how climate change has contributed to the increasing severity of events focus on different regions and various meteorological extremes including tropical cyclones drought flooding rising water levels and changes in rainfall concentration Final sections look ahead to the future of forecasting rainfall economic implications damage assessment adaptation community resilience and risk reduction measures This timely resource will deepen readers understanding of how climate change and extreme rainfall in Africa and elsewhere are impacting communities and what can be done to mitigate the effects Provides a conceptual framework that gives readers an interdisciplinary understanding of climate change and rainfall extremes in Africa Includes case studies that offer practical examples and real world data Presents end of chapter summaries that highlight findings and future implications

The American Meteorological Journal ,1888

Rainfall Prediction-measurement Systems and Rainfall Design Information for Urban Areas Stanley Alcide Changnon,1980

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Encyclopedia of Information Systems and Technology - Two Volume Set Phillip A. Laplante,2015-12-29

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