

In general, data tables should have the following format:

Independent Variable (What you modify)	Dependent Variable (What you Measure)			Average of the Trials
	Trial 1	Trial 2	Trial 3	

So, for our M&M experiment it would look like:

Color of M&M	Time for color to reach "finish line"			Average of the Trials
	Trial 1	Trial 2	Trial 3	
Blue	90s	91s	89s	90.0s
Green	90	90	89	89.7s
Brown	87	90	92	89.7s

Science Fair Data Table Template

Jack Hassard, Michael Dias

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the authors' names.

Science Fair Data Table Template:

Science Fair Projects for Elementary Schools Patricia Hachten Wee, 1998-11-05 Science Fair Projects for Elementary Schools offers step by step instructions for a hands on learning experience for children in grades 2-5 who are doing science fair projects Curiosity Bug a friendly companion guides the student through every step of a science fair project finding and researching a topic developing a controlled experiment making graphs and designing a display Curiosity Bug's sample project provides the child with a detailed example and worksheets allow the child to work comfortably with his or her own data Subsequent chapters include two sample projects in each field of science animals and insects plants chemistry the environment and microscopes These are perfect starter projects presented in cookbook style with complete instructions and resources The child can choose one follow the procedures given and plug in his or her data and results Science Fair Projects for Elementary Schools also provides examples of graphs ideas for display and opportunities for further research Each chapter also includes ten other project ideas and a list of related children's books A final section provides parents teachers and librarians with sample letters forms and layouts to facilitate setting up a science fair This book is sure to spark any student's interest in the intriguing absorbing world of science *A Guide to Teaching Elementary Science* Yvette F. Greenspan, 2015-12-21 Nationally and internationally educators now understand the critical importance of STEM subjects science technology engineering and mathematics Today the job of the classroom science teacher demands finding effective ways to meet current curricula standards and prepare students for a future in which a working knowledge of science and technology will dominate But standards and goals don't mean a thing unless we grab students' attention capture and deepen children's natural curiosity create an exciting learning environment that engages the learner and make science come alive inside and outside the classroom setting *A Guide to Teaching Elementary Science Ten Easy Steps* gives teachers at all stages of classroom experience exactly what the title implies Written by lifelong educator Yvette Greenspan this book is designed for busy classroom teachers who face tough conditions from overcrowded classrooms to shrinking budgets and too often end up anxious and overwhelmed by the challenges ahead and their desire for an excellent science program This book helps teachers develop curricula compatible with the Next Generation Science Standards and the Common Core Standards provides easy to implement steps for setting up a science classroom plus strategies for using all available resources to assemble needed teaching materials offers detailed sample lesson plans in each STEM subject adaptable to age and ability and designed to embrace the needs of all learners and presents bonus information about organizing field trips and managing science fairs Without question effective science curricula can help students develop critical thinking skills and a lifelong passion for science Yvette Greenspan received her doctorate degree in science education and has developed science curriculum at all levels A career spent in teaching elementary students in an urban community she now instructs college students sharing her love for the teaching and learning of science She considers it essential to encourage today's students to

be active learners and to concentrate on STEM topics that will help prepare them for the real world

Practitioner's Guide to Data Science Nasir Ali Mirza, 2022-01-17 Covers Data Science concepts processes and the real world hands on use cases

KEY FEATURES Covers the journey from a basic programmer to an effective Data Science developer Applied use of Data Science native processes like CRISP DM and Microsoft TDSP Implementation of MLOps using Microsoft Azure DevOps

DESCRIPTION How is the Data Science project to be implemented has never been more conceptually sounding thanks to the work presented in this book This book provides an in depth look at the current state of the world's data and how Data Science plays a pivotal role in everything we do This book explains and implements the entire Data Science lifecycle using well known data science processes like CRISP DM and Microsoft TDSP The book explains the significance of these processes in connection with the high failure rate of Data Science projects The book helps build a solid foundation in Data Science concepts and related frameworks It teaches how to implement real world use cases using data from the HMDA dataset It explains Azure ML Service architecture its capabilities and implementation to the DS team who will then be prepared to implement MLOps The book also explains how to use Azure DevOps to make the process repeatable while we're at it By the end of this book you will learn strong Python coding skills gain a firm grasp of concepts such as feature engineering create insightful visualizations and become acquainted with techniques for building machine learning models

WHAT YOU WILL LEARN Organize Data Science projects using CRISP DM and Microsoft TDSP Learn to acquire and explore data using Python visualizations Get well versed with the implementation of data pre processing and Feature Engineering Understand algorithm selection model development and model evaluation Hands on with Azure ML Service its architecture and capabilities Learn to use Azure ML SDK and MLOps for implementing real world use cases

WHO THIS BOOK IS FOR This book is intended for programmers who wish to pursue AI ML development and build a solid conceptual foundation and familiarity with related processes and frameworks Additionally this book is an excellent resource for Software Architects and Managers involved in the design and delivery of Data Science based solutions

TABLE OF CONTENTS 1 Data Science for Business 2 Data Science Project Methodologies and Team Processes 3 Business Understanding and Its Data Landscape 4 Acquire Explore and Analyze Data 5 Pre processing and Preparing Data 6 Developing a Machine Learning Model 7 Lap Around Azure ML Service 8 Deploying and Managing Models

German Medical Data Sciences 2023 — Science. Close to People. Niels Grabe, Martin Haag, Ursula Hertha Hübner, Ulrich Sax, Carsten Oliver Schmidt, Martin Sedlmayr, 2023-10-15 The Covid 19 pandemic affected the daily lives of all of us on many levels Epidemiology suddenly became a personal matter and general interest in many aspects of medical data science became much more widespread And physical distance became the new normal This book presents the full paper part of the proceedings of GMDS 2023 the 68th annual meeting of the German Association for Medical Informatics Biometry and Epidemiology held from 17 to 21 September 2023 in Heilbronn Germany The theme of the conference was Science Close to People a particularly appropriate theme for the first of these annual

conferences to be held face to face since 2019 A total of 227 scientific contributions were submitted to GMDS 2023 including 41 full papers for this volume in Studies in HTI Of these 30 papers are included here following a rigorous two stage review process which represents an acceptance rate of 73% The 30 papers in this book are grouped under 8 headings FAIRification research software engineering for research infrastructure human factors data quality clinical decision support evaluation of healthcare IT biosignals and interoperability Providing a broad overview of current developments in the disciplines of medical informatics biometry and epidemiology the book will be of interest to all those working in these fields

Energy Science and Applied Technology Zhigang Fang,2015-11-17 Energy Science and Applied Technology includes contributions on a wide range of topics Technologies in geology mining oil and gas exploration and exploitation of deposits Energy transfer and conversion materials and chemical technologies Environmental engineering and sustainable development Electrical and electronic technology power system

AI Prompt Library for Teachers: 200+ Prompts for Lesson Planning, Quizzes, Parent Communication & Classroom Tools ReguReady,2025-09-07 The AI Prompt Library for Teachers gives you 200 ready to use prompts for everyday classroom tasks Whether you re planning lessons writing quizzes or drafting parent newsletters this book makes AI work for you Each prompt includes clear instructions customizable placeholders and example outputs so you can start immediately Inside you ll find Lesson Planning Tools daily plans unit outlines warm ups exit tickets Quizzes Assessments multiple choice tests rubrics peer reviews reflection prompts Parent Communication letters behavior notes newsletters permission slips Classroom Management job charts checklists schedules and templates This isn t theory it s a practical AI companion for teachers tutors and homeschoolers who want to save time reduce stress and stay creative

Data Science For Programmer: A Project-Based Approach With Python GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2021-08-19 Book 1 Practical Data Science Programming for Medical Datasets Analysis and Prediction with Python GUI In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Project 1 you will learn how to use Scikit Learn NumPy Pandas Seaborn and other libraries to perform how to predict early stage diabetes using Early Stage Diabetes Risk Prediction Dataset provided by Kaggle This dataset contains the sign and symptpom data of newly diabetic or would be diabetic patient This has been collected using direct questionnaires from the patients of Sylhet Diabetes Hospital in Sylhet Bangladesh and approved by a doctor You will develop a GUI using PyQt5 to plot distribution of features feature importance cross validation score and prediced values versus true values The machine learning models used in this project are Adaboost Random Forest Gradient Boosting Logistic Regression and Support Vector Machine In Project 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict breast cancer using Breast Cancer Prediction Dataset provided by Kaggle Worldwide breast cancer is the most common type of cancer in women and the second highest in terms of mortality rates Diagnosis of breast cancer is performed when an abnormal lump is found from self examination or x ray or a tiny speck of calcium is seen on an x ray After a

suspicious lump is found the doctor will conduct a diagnosis to determine whether it is cancerous and if so whether it has spread to other parts of the body This breast cancer dataset was obtained from the University of Wisconsin Hospitals Madison from Dr William H Wolberg You will develop a GUI using PyQt5 to plot distribution of features pairwise relationship test scores predicted values versus true values confusion matrix and decision boundary The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree and Support Vector Machine

Book 2 Step by Step Tutorials For Data Science With Python GUI Traffic And Heart Attack Analysis And Prediction In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset provided by Kaggle This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 DateTime 2 Junction 3 Vehicles and 4 ID In Chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis Prediction Dataset provided by Kaggle

Book 3 BRAIN TUMOR Analysis Classification and Detection Using Machine Learning and Deep Learning with Python GUI In this project you will learn how to use Scikit Learn TensorFlow Keras NumPy Pandas Seaborn and other libraries to implement brain tumor classification and detection with machine learning using Brain Tumor dataset provided by Kaggle This dataset contains five first order features Mean the contribution of individual pixel intensity for the entire image Variance used to find how each pixel varies from the neighboring pixel 0 Standard Deviation the deviation of measured Values or the data from its mean Skewness measures of symmetry and Kurtosis describes the peak of e g a frequency distribution It also contains eight second order features Contrast Energy ASM Angular second moment Entropy Homogeneity Dissimilarity Correlation and Coarseness The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree and Support Vector Machine The deep learning models used in this project are MobileNet and ResNet50 In this project you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix training loss and training accuracy

Real-World Software Projects for Computer Science and Engineering Students Varun Gupta, Anh Nguyen-Duc, 2021-02-24 Developing projects outside of a classroom setting can be intimidating for students and is not always a seamless process Real World Software Projects for Computer Science and Engineering Students is a quick easy source for tackling such issues Filling a critical gap in the research literature the book Is ideal for academic project supervisors Helps researchers conduct interdisciplinary research Guides computer science students on undertaking and implementing research based projects This book explains how to develop highly complex industry specific projects touching on real world complexities of software developments It shows how to develop projects for students who have not yet had the chance to gain real world experience providing

opportunity to become familiar with the skills needed to implement projects using standard development methodologies The book is also a great source for teachers of undergraduate students in software engineering and computer science as it can help students prepare for the risk and uncertainty that is typical of software development in industrial settings [Open Citizen Science Data and Methods](#) Anne Bowser,Sven Schade,Alex de Sherbinin,2022-11-25 [Trends in Teaching Experimentation in the Life Sciences](#) Nancy J. Pelaez,Stephanie M. Gardner,Trevor R. Anderson,2022-05-11 This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) **STEP BY STEP PROJECT-BASED TUTORIALS DATA SCIENCE WITH PYTHON GUI:**

TRAFFIC AND HEART ATTACK ANALYSIS AND PREDICTION Vivian Siahaan,Rismon Hasiholan Sianipar,2023-06-21 In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset <https://viviansiahaan.blogspot.com> 2023 06 step by step project based tutorials.html This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 DateTime 2 Junction 3 Vehicles and 4 ID Here s the outline of the steps involved in predicting traffic Dataset Preparation Extract the dataset files to a local folder Import the necessary libraries such as pandas and numpy Load the dataset into a pandas DataFrame Exploratory Data Analysis EDA Explore the dataset to understand its structure and characteristics Check for missing values or anomalies in the data Examine the distribution of the target variable number of vehicles Visualize the data using plots or graphs to gain insights into the patterns and trends Data Preprocessing Convert the DateTime column to a datetime data type for easier manipulation Extract additional features from the DateTime column such as hour day of the week month etc which might be relevant for traffic prediction Encode categorical variables such as Junction using one hot encoding or label encoding Split the dataset into training and testing sets for model evaluation

Feature Selection Engineering Perform feature selection techniques such as correlation analysis or feature importance to identify the most relevant features for traffic prediction Engineer new features that might capture underlying patterns or relationships in the data such as lagged variables or rolling averages Model Selection and Training Choose an appropriate machine learning model for traffic prediction such as linear regression decision trees random forests or gradient boosting Split the data into input features X and target variable y Split the data further into training and testing sets Fit the chosen model to the training data Evaluate the model s performance using appropriate evaluation metrics e g mean squared error R squared Model Evaluation and Hyperparameter Tuning Assess the model s performance on the testing set Tune the hyperparameters of the chosen model to improve its performance Use techniques like grid search or randomized search to find the optimal hyperparameters Model Deployment and Prediction Once satisfied with the model s performance retrain it on the entire dataset including the testing set Save the trained model for future use Utilize the model to make predictions on new unseen data for traffic prediction

In chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis Data Loading Explain how to load the Heart Attack Analysis Data Exploration Describe the importance of exploring the dataset before analysis Show how to examine the dataset s structure check for missing values understand the statistical summary and visualize the data using plots or charts Data Preprocessing Explain the steps required to preprocess the dataset before feeding it into a machine learning model This may include handling missing values encoding categorical variables scaling numerical features and dealing with any other necessary data transformations Data Splitting Describe how to split the preprocessed data into training and testing sets Emphasize the importance of having separate data for training and evaluation to assess the model s performance accurately Model Building and Training Explain how to choose an appropriate machine learning algorithm for heart attack prediction and how to build a model using libraries like Scikit Learn Outline the steps involved in training the model on the training dataset Model Evaluation Describe how to evaluate the trained model s performance using appropriate evaluation metrics such as accuracy precision recall and F1 score Demonstrate how to interpret the evaluation results and assess the model s predictive capabilities Predictions on New Data Explain how to use the trained model to make predictions on new unseen data Demonstrate the process of feeding new data to the model and obtaining predictions for heart attack risk

The Art of Teaching Science Jack Hassard, Michael Dias, 2013-07-04 The Art of Teaching Science emphasizes a humanistic experiential and constructivist approach to teaching and learning and integrates a wide variety of pedagogical learning tools These tools involve inquiry and experimentation reflection through writing and discussion as well as experiences with students science curriculum and pedagogy Becoming a science teacher is a creative process and this innovative textbook encourages students to construct ideas about science teaching through their interactions with peers professionals and instructors and through hands on minds on activities designed to foster a collaborative thoughtful learning environment

[A Hands-On Introduction](#)

to Data Science Chirag Shah,2020-04-02 This book introduces the field of data science in a practical and accessible manner using a hands on approach that assumes no prior knowledge of the subject The foundational ideas and techniques of data science are provided independently from technology allowing students to easily develop a firm understanding of the subject without a strong technical background as well as being presented with material that will have continual relevance even after tools and technologies change Using popular data science tools such as Python and R the book offers many examples of real life applications with practice ranging from small to big data A suite of online material for both instructors and students provides a strong supplement to the book including datasets chapter slides solutions sample exams and curriculum suggestions This entry level textbook is ideally suited to readers from a range of disciplines wishing to build a practical working knowledge of data science

Practical Full Stack Machine Learning Alok Kumar,2021-11-26 Master the ML process from pipeline development to model deployment in production KEY FEATURES Prime focus on feature engineering model exploration optimization dataops ML pipeline and scaling ML API A step by step approach to cover every data science task with utmost efficiency and highest performance Access to advanced data engineering and ML tools like AirFlow MLflow and ensemble techniques DESCRIPTION Practical Full Stack Machine Learning introduces data professionals to a set of powerful open source tools and concepts required to build a complete data science project This book is written in Python and the ML solutions are language neutral and can be applied to various software languages and concepts The book covers data pre processing feature management selecting the best algorithm model performance optimization exposing ML models as API endpoints and scaling ML API It helps you learn how to use cookiecutter to create reusable project structures and templates It explains DVC so that you can implement it and reap the same benefits in ML projects It also covers DASK and how to use it to create scalable solutions for pre processing data tasks KerasTuner an easy to use scalable hyperparameter optimization framework that solves the pain points of hyperparameter search will be covered in this book It explains ensemble techniques such as bagging stacking and boosting methods and the ML ensemble framework to easily and effectively implement ensemble learning The book also covers how to use Airflow to automate your ETL tasks for data preparation It explores MLflow which allows you to train reuse and deploy models created with any library It teaches how to use fastAPI to expose and scale ML models as API endpoints WHAT YOU WILL LEARN Learn how to create reusable machine learning pipelines that are ready for production Implement scalable solutions for pre processing data tasks using DASK Experiment with ensembling techniques like Bagging Stacking and Boosting methods Learn how to use Airflow to automate your ETL tasks for data preparation Learn MLflow for training reprocessing and deployment of models created with any library Workaround cookiecutter KerasTuner DVC fastAPI and a lot more WHO THIS BOOK IS FOR This book is geared toward data scientists who want to become more proficient in the entire process of developing ML applications from start to finish Knowing the fundamentals of machine learning and Keras programming would be an essential requirement TABLE OF

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In the current state of global upheaval with the rallying call for human rights and justice for people who have been historically marginalized the curriculum must be decolonized to ensure that children identified as marginalized and at risk are receiving an equitable education that is based on respect and acceptance of their cultural heritage as well as their human rights The Struggle for Justice Equity and Peace in the Global Classroom investigates the global classroom as a site of transformation for educators who dare to take action to replace oppressive and repressive practices with emancipatory strategies grounded in critical consciousness The book s contents convey the pluralism that defines America and the world investigating how educators can re envision the future through an engagement with the past and an understanding of how the historical continuities of racial intolerance and social injustice continue to impact classroom teaching and the outcomes of children whose lives are shaped by the aftermath of slavery and oppression Covering topics such as colonial education inclusive classrooms and student agency this premier reference source is an excellent resource for teachers school administrators literary scholars community activists teacher educators preservice teachers researchers and academicians *Recording Science in the Digital Era* Cerys Willoughby,2019-07-15 For most of the history of scientific endeavour science has been recorded on paper In this digital era however there is increasing pressure to abandon paper in favour of digital tools Despite the benefits there are barriers to the adoption of such tools not least their usability As the relentless development of technology changes the way we work we need to ensure that the design of technology not only overcomes these barriers but facilitates us as scientists and supports better practice within science This book examines the importance of record keeping in science current record keeping practices and the role of technology for enabling the effective capture reuse sharing and preservation of scientific data Covering the essential areas of electronic laboratory notebooks ELNs and digital tools for recording scientific data including an overview of the current data management technology available and the benefits and pitfalls of using these technologies this book is a useful tool for those interested in implementing digital data solutions within their research groups or departments This book also provides insight into important factors to consider in the design of digital tools such as ELNs for those interested in producing their own tools Finally it looks at the role of current technology and then considers how that technology might develop in the future to better support scientists in their work and in capturing and sharing the scientific record

Hands-On General Science Activities With Real-Life Applications Pam Walker,Elaine Wood,2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into

everyday life *Financial Data Science with SAS* Babatunde O Odusami,2024-06-14 Explore financial data science using SAS Financial Data Science with SAS provides readers with a comprehensive explanation of the theoretical and practical implementation of the various types of analytical techniques and quantitative tools that are used in the financial services industry This book shows readers how to implement data visualization simulation statistical predictive models machine learning models and financial optimizations using real world examples in the SAS Analytics environment Each chapter ends with practice exercises that include use case scenarios to allow readers to test their knowledge Designed for university students and financial professionals interested in boosting their data science skills Financial Data Science with SAS is an essential reference guide for understanding how data science is used in the financial services industry and for learning how to use SAS to solve complex business problems **Introduction to Biomedical Data Science** Robert Hoyt,Robert Muenchen,2019-11-24 Overview of biomedical data science Spreadsheet tools and tips Biostatistics primer Data visualization Introduction to databases Big data Bioinformatics and precision medicine Programming languages for data analysis Machine learning Artificial intelligence Biomedical data science resources Appendix A Glossary Appendix B Using data world Appendix C Chapter exercises **Design Science Research in Information Systems: Advances in Theory and Practice** Ken Peffers,Marcus Rothenberger,Bill Kuechler,2012-05-08 This book constitutes the refereed proceedings of the 7th International Conference on Design Science Research in Information Systems and Technology DERIST 2012 held in Las Vegas NV USA in May 2012 The 24 revised full papers presented together with 7 revised short papers were carefully reviewed and selected from 44 submissions The papers are organized in topical sections on DSRIS in practice DSRIS methodologies and techniques social and environmental aspects of DSRIS theory and theory building in DSRIS and evaluation of DSRIS projects

Unveiling the Magic of Words: A Review of "**Science Fair Data Table Template**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Science Fair Data Table Template**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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web jan 1 2017 in addition to removing so₃ dsi systems can also be used to remove other acid gases such as hcl dry sorbents remove so₃ by a gas solid reaction the alkaline sorbent is pneumatically injected upstream or downstream of the air heater and upstream of the existing particulate control device

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web the various flue gas desulfurization fgd technologies available in the market for the reduction of sulfur dioxide emissions are presented the process descriptions are discussed and the capital and operating costs of the various methods are presented

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the flue gas with acid vapors is scrubbed to remove it as a by product most of the fgd processes use alkali to scrub the flue gas

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