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H Kauffman

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Data Cleaning and Exploration with Machine Learning Tirupathi Rao Dockara,2025-12-02 DESCRIPTION Machine learning has become central to how organizations handle data in today s world With businesses generating vast amounts of information the ability to clean explore and model data effectively is no longer optional it is a critical skill for decision making innovation and competitive advantage This book takes readers on a structured journey starting with Python foundations and essential libraries It discusses data cleaning preprocessing and exploratory analysis and then explores text and time series data dimensionality reduction regression classification and clustering techniques Advanced topics such as model evaluation neural networks deep learning retrieval augmented generation and explainable AI are covered in detail which are supported by real world examples and case studies Each chapter builds progressively ensuring both theoretical grounding and practical application and vital industry practices By the end of the book readers will be equipped with the skills to handle raw datasets uncover patterns build and evaluate ML models and apply advanced techniques responsibly You will be confident in applying these methods to solve problems in their domains making yourself a competent data practitioner ready to deliver insights and drive impact WHAT YOU WILL LEARN Understand Python foundations and essential data science libraries Apply data cleaning methods to handle missing or noisy data Perform exploratory data analysis using statistics and visualization Work with text time series and high dimensional datasets Build regression classification and clustering ML models Evaluate models with metrics validation and hyperparameter tuning Explore neural networks deep learning and explainable AI techniques Implement real world case studies and capstone data projects WHO THIS BOOK IS FOR This book is for data analysts data scientists ML engineers and business professionals who want to strengthen their skills in data preparation and modeling It is also valuable for students researchers and software developers aiming to apply ML techniques effectively in real world projects TABLE OF CONTENTS 1 Introduction to Data Science and Machine Learning 2 Setting Up Your Development Environment 3 Introduction to Integrated Development Environments 4 Exploring Essential Python Libraries 5 Introduction to Data Cleaning 6 Exploratory Data Analysis Made Easy 7 Demystifying Data Preprocessing from Raw to Refined 8 Unraveling Insights from Text and Time Series Data 9 Dimensionality Reduction Techniques 10 Building Regression Models for Confident Predictions 11 Supervised Learning for Developing Classification Models 12 Discovering Hidden Patterns with Clustering Techniques 13 Ensuring Model Reliability Through Evaluation 14 Techniques and Applications of RAG Pipelines 15 Fine tuning and Evaluating Base LLMs 16 Putting It All Together with Case Studies 17 Best Practices and Tips from Industry Experts 18 Conclusion and Further Resources   *Science Fair Experiments* Byron G. Wels,1975 Instructions for building and displaying forty three science projects on such topics as space science heredity speech synthesis and rocketry

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