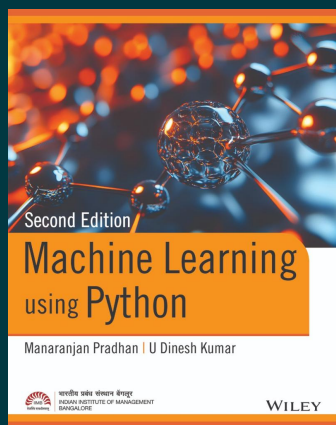




Machine Learning using Python, 2ed

By Manaranjan Pradhan, U Dinesh Kumar

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Description

Machine Learning using Python offers a comprehensive foundation in machine learning, blending theoretical concepts with practical applications. It is ideal for beginners and aspiring professionals, covering all essential topics to build a strong foundation in machine learning. The book begins with python language basics, statistics, probability, and exploratory data analysis, and then progresses to supervised learning techniques like linear and logistic regressions, decision trees, KNN, SVM, random forests, boosting, stacking, recommender systems, and text analytics. It also explores unsupervised learning techniques such as clustering, anomaly detection, and dimensionality reduction.

The book also addresses advanced topics like ML explainability and MLOps, including model interpretation, deployment, and monitoring. Each chapter includes real-world use cases and step-by-step Python implementations using libraries like Pandas, NumPy, Matplotlib, Seaborn, and Sci kit-learn. The content reflects over 15 years of teaching experience of the authors in institutions like IIM Bangalore and ISB Hyderabad.

About the Author

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Table of Contents

1 INTRODUCTION TO MACHINE LEARNING

- 1.1 Introduction to Analytics and Machine Learning
- 1.2 Why Machine Learning?
- 1.3 Framework for Developing Machine Learning Models
- 1.4 Why Python?
- 1.5 Python Stack for Machine Learning
- 1.6 Getting Started with Anaconda Platform
- 1.7 Introduction to Python

Further Reading

References

2 EXPLORATORY DATA ANALYSIS

- 2.1 Working with DataFrames in Python
- 2.2 Handling Missing Values
- 2.3 Exploration of Data Using Visualization
- 2.4 Cross Tabulation and Heatmap
- Conclusion
- Exercises
- References

3 PROBABILITY AND STATISTICS

- 3.1 Overview
- 3.2 Probability Theory – Terminology
- 3.3 Random Variables
- 3.4 Binomial Distribution
- 3.5 Poisson Distribution
- 3.6 Exponential Distribution
- 3.7 Normal Distribution
- 3.8 Central Limit Theorem
- 3.9 Hypothesis Test
- 3.10 Analysis of Variance (ANOVA)
- Conclusion
- Exercises
- References

4 REGRESSION

- 4.1 Simple Linear Regression
- 4.2 Steps in Building a Regression Model
- 4.3 Building Simple Linear Regression Model
- 4.4 Model Diagnostics
- 4.5 Multiple Linear Regression
- Conclusion
- Exercises
- References

5 CLASSIFICATION

- 5.1 Classification Overview
- 5.2 Binary Logistic Regression
- 5.3 Credit Classification
- 5.4 Gain Chart and Lift Chart

5.5 Classification Tree (Decision Tree Learning)

Conclusion

Exercises

References

6 ADVANCED SUPERVISED LEARNING

6.1 Overview

6.2 Gradient Descent Algorithm

6.3 Scikit-learn Library for Machine Learning

6.4 Advanced Regression Models

6.5 Advanced Machine Learning Algorithms

Conclusion

Exercises

References

7 UNSUPERVISED LEARNING

7.1 Overview

7.2 Clustering Overview

7.3 K-Means Clustering

7.4 Creating Product Segments Using Clustering

7.5 Hierarchical Clustering

7.6 Density-Based Clustering: DBSCAN

7.7 Outlier Detection

7.8 Dimensionality Reduction

Conclusion

Exercises

References

8 FORECASTING

8.1 Forecasting Overview

8.2 Components of Time-Series Data

8.3 Moving Average

8.4 Decomposing Time Series

8.5 Auto-Regressive Integrated Moving Average Models

Conclusion

Exercises

References

9 RECOMMENDER SYSTEMS

9.1 Overview

9.2 Association Rules (Association Rule Mining)

9.3 Collaborative Filtering

9.4 Using Surprise Library

9.5 Matrix Factorization

Conclusion

Exercises

References

10 TEXT ANALYTICS

10.1 Overview

10.2 Sentiment Classification

10.3 Naïve-Bayes Model for Sentiment Classification

10.4 Using TF-IDF Vectorizer

10.5 Challenges of Text Analytics

Conclusion

Exercises

References

11 ML EXPLAINABILITY

11.1 Overview

11.2 Use Case for Model Explainability

11.3 Model-Agnostic Techniques for ML Explainability

Conclusion

Exercises

References

12 MLOPS

12.1 Introduction

12.2 MLOps Systems

12.3 Building Blocks of MLOps Framework

12.4 ML Pipeline

12.5 Experiment Tracking and Model Registry

12.6 ML Model Serving

12.7 Model Deployment Strategies

12.8 Model Drift Monitoring

Conclusion

Exercises

References

Index

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