

APPLICATION OF DECISION TREE FOR DEVELOPING ACCURATE PREDICTION MODELS

Dr. Pratibha Vijay Jadhav
Dr. Vaishali Vilas Patil



APPLICATION OF DECISION TREE FOR DEVELOPING ACCURATE PREDICTION MODELS

Dr. Pratibha Vijay Jadhav
Dr. Vaishali Vilas Patil

Lulu Publication
2022



Price: 300/-

**APPLICATION OF DECISION TREE FOR DEVELOPING
ACCURATE PREDICTION MODELS**

**Dr. Pratibha Vijay Jadhav
Dr. Vaishali Vilas Patil**

© 2022 by Authors

All rights reserved. No part of this publication may be reproduced or transmitted, in any form or by any means, without prior permission of the author. Any person who does any unauthorized act in relation to this publication may be liable to criminal prosecution and civil claims for damages. [The responsibility for the facts stated, conclusions reached, etc., is entirely that of the author. The publisher is not responsible for them, whatsoever.]

ISBN- 978-1-387-85880-4

**Published by,
Lulu Publication
3101 Hillsborough St,
Raleigh, NC 27607,
United States.**

**Printed by,
Laxmi Book Publication,
258/34, Raviwar Peth,
Solapur, Maharashtra, India.
Contact No. : 9595359435
Website: <http://www.lbp.world>
Email ID: apiguide2014@gmail.com**





Principal
Tuljaram Chaturchand College
Baramati



CONTENTS

CHAPTER 1	INTRODUCTION	
1.1	Background	1
1.2	Regression analysis	4
1.3	Data mining	6
1.4	Different Methods are used for Classification and Predictive Modelling in data mining.	20
1.5	Decision Tree	21
1.6	Classification and Regression Tree	26
1.7	Problem in Hand	31
1.8	Research objective	32
1.9	Scope of Research Work	33
1.10	Outline of Thesis	33
1.11	Software	34
1.12	Terminology	40
1.13	Hypothesis	42
CHAPTER 2	METHODOLOGY	
2.1	Introduction	47
2.2	Types of Data Analysis	51
2.3	Regression Analysis	61
2.4	Regression Techniques used in Predictive Analysis	63
2.5	Performance Measure Used in Regression Analysis	70
2.6	Decision Tree	75
2.7	CART Classification and Regression Tree	92
2.8	Proposed Work	114
CHAPTER 3	CASE STUDY	
3.1	DATA SET -1	122
3.2	DATA SET -2	152
3.3	DATA SET -3	204
3.4	Conclusion	239
3.5	Future scope	240
3.6	Limitation of Research work	240
Bibliography		241




 Principal
 Tuljaram Chaturchand College
 Baramati

