

CONTENTS

ABSTRACT	i
1. Introduction	1
1.1 Introduction	1
1.2 Objective of the project	1
1.3 Organization of the report	1
2. System Specifications	3
2.1 Software specification	3
2.2 Hardware specification	3
3. Design & Implementation	4
3.1 Introduction	4
3.2 Machine learning life cycle	4
3.3 Data gathering	4
3.4 Data preparation	6
3.5 Data wrangling	6
3.6 Data analysis	7
3.7 Train model	8
3.8 Test model	8

3.9 Deployment	8
3.10 Flow chart	9
3.11 Data visualization	10
4. Classification Techniques	11
4.1 Introduction	11
4.2 Logistic regression	11
4.2.1 Python implementation of logistic regression	13
4.3 Decision Tree	18
4.3.1 Python implementation of decision tree	21
4.4 Random Forest	26
4.4.1 Python implementation of random forest	27
4.5 Support Vector Machine	32
4.5.1 python implementation of support vector machine	34
5. Conclusion	39
References	40

