A PROJECT REPORT ON

"STUDENT PERFORMANCE PREDICTION USING MACHINE LEARNING"

SUBMITTED TO THE SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
IN PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE

OF

BACHELOR OF ENGINEERING
IN
INFORMATION TECHNOLOGY

By

Student Name	Seat No.
SIDDHI BENDKHALE	B150458506
SUSHMITA GATNE	B150458517
MOHIT PATIL	B150458534
ADITYA SHELAR	B150458547

UNDER THE GUIDANCE OF
Mr. JITENDRA CHAVAN

DEPARTMENT OF INFORMATION TECHNOLOGY

MARATHWADA MITRA MANDAL COLLEGE OF ENGINEERING

KARVE NAGAR, PUNE-411052 MAHARASHTRA, INDIA

2018-2019

MARATHWADA MITRA MANDAL COLLEGE OF ENGINEERING
KARVE NAGAR, PUNE-411052
Department of Information Technology

CERTIFICATE

This is to certify that the project report entitled

STUDENT PERFORMANCE PREDICTION USING MACHINE LEARNING

Submitted by

Siddhi Bendkhale	B150458506
Sushmita Gatne	B150458517
Mohit Patil	B150458534
Aditya Shelar	B150458547

This is a bonafide work carried out by them under the supervision of Mr. Jitendra Chavan in partial fulfillment of the requirement of Savitribai Phule Pune University, Pune for the award of the degree of Bachelor of Engineering (Information Technology). This project report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

Internal Guide **Head of Department**

(Mr. Jitendra Chavan) (Dr. V.S. Bidve)

Principal **External Examiner**

(Dr. S. M. Deshpande)

Place: MMCOE, Pune
Date: /05/2019

ACKNOWLEDGEMENT

I am profoundly grateful to **Mr. Jitendra Chavan** for his expert guidance and continuous encouragement throughout to see that this seminar rights its target since its commencement to its completion. I am also grateful to **Mr. Nikhil S. Dhavase, Project coordinator** for his support and guidance that have helped me to expand my horizons of thought and expression.

I would like to express my deepest appreciation towards **Dr. S. M. Deshpande,** Principal, M.M.C.O.E. Pune, **Dr. V. S. Bidave,** HOD Information Technology Department whose invaluable guidance supported me in completing this project.

At last I must express my sincere heartfelt gratitude to all staff members of Information Technology Department who helped me directly or indirectly during this course of work.

Sushmita Gatne
Siddhi Bendkhale
Mohit Patil
Aditya Shelar

CONTENTS

LIST OF FIGURES

LIST OF TABLES

NOMENCLATURE

CHAPTER	ABBREVIATION	DEFINITION
1.	EWMA	EXPONENTIALLY WEIGHTED MOVING AVERAGE
2.	EDM	EDUCATIONAL DATA MINING
3.	MOOC	MASSIVE OPEN ONLINE COURCES
4.	TEL	TECHNICAL ENHANCED LEARNING
5.	SVM	SUPPORT VECTOR MACHINE
6.	ANN	ARTIFICIAL NEURAL NETWORK
7.	MLA	MACHINE LEARNING ALGORITHM

ABSTRACT

Precisely foreseeing students' future execution dependent on their continuous scholarly records is essential for viably doing important instructive sessions to guarantee students' on-schedule and acceptable graduation. In spite of the fact that there is a rich writing on anticipating student execution when taking care of issues or contemplating for courses utilizing information driven methodologies, foreseeing student execution in finishing degrees (for example school programs) is considerably less examined and faces new difficulties: (1) Students contrast massively as far as foundations and chose courses; (2) Courses are not similarly useful for making exact expectations; (3) Students' advancement should be consolidated into the forecast. In this paper, we build up a novel ML technique for foreseeing student execution in degree programs that can address these key difficulties. The proposed technique has two noteworthy highlights. Initial, a study of students marks variations in subjects is understood, by using ML techniques. Second, information driven methodology dependent on survey for students study habits and daily routine is considered to affect the performance.