Project Report On

Fraud Detection using ML

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023

Submitted By

Riki Saha (26371022034)

Under the guidance of

Shri KRISHNA KANTA MAITI

Assistant Professor

Department of Master of Computer Applications
Regent Education and Research Foundation

Department of Master of Computer Applications
Regent Education and Research Foundation
(Affiliated to Maulana Abul Kalam Azad Universityof Technology,West Bengal)
Barrackpore-700121,Barrackpore,WB
Department of Master of Computer Applications

Submitted to the Regent Education and Research Foundation,RERF

Affiliated to

Maulana Abul Kalam Azad Universityof Technology,
Formerly Known as,
West Bengal University Of Technology, West Bengal
Barrackpore, KOLKATA-700121

Department Of MCA

RERF
Group of Institutions

Certificate of Approval

This is to certify that this report of MCA final year project ,entitled Fraud Detection using ML is the process of accurately detecting fraud transactions ,carried out by Riki Saha under my supervision and guidance.

In my opinion , the report in its present form is in partial fulfillment of all the requirements ,as specified by **Regent Education And Research Foundation** and as per regulation of regulation of the **Maulana Abul Kalam Azad University Of Technology**. In fact,it has standard,necessary for submission to the best of my knowledge, the result embodied version of the report for the MCA programme.

Guide / superviser

Krishna Kanta Mati

Mr Krishna Kanata Mati
Department of Master of Computer Application
Regent Education and Research Foundation

31/05/24.

Examiner(S)

Head of the Department
Master of Computer Application

Campus: Regent Education & Research Foundation Group of Institutions
Bara Kanthalia(Barrackpore), Post : Senli Telenipara, P.S. : Titagarh, Kolkata - 700121,
Tal. : 033 2535-3051/3052, Fax: 033 2535-3052
Regd. Office :88, Chowringhee Road, Kolkata -70020,E-mail: rerfkolkata@gmail.com, Website: www.rerf.co.in
City office: 3rd Floor,60B,Chowringhee Road ,Kolkata_70020, Tel:(+9133)22900112/13/14,Fax No: 033-2290-0115

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

Maulana Abul Kalam Azad university of Technology

Formerly Known as

West Bengal University of Technology

May,2024

BONAFIDE CERTIFICATE

Certificate that the Dissertation on FRAUD DETECTION USING ML is the Bonafied work BY RIKI SAHA(26371022034) Carried out under my supervision and guidance in partial fulfillment of the requirements for the award of degree of *Master of Computer Application.*

Signature

prof.Krishna Kanta Mati

HOD,Dept. of MCA

Signature

Prof.Krishna Kanta Mati

Project Guide

SELF CERTIFICATE

This is to certify that the dissertation / project report entitled "Fraud Detection using ML" is done by me is an authentic work carried out for the partial fulfilment of the requirement for the award of the MCA under the guidance of KRISHNA KANTA MAITI Sir. I also certify that I am aware of the "MCA project & project report" The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Riki Saha.

Name- Riki Saha

Roll No. - 26371022034

Reg.No- 222630510026 OF 2022-23

ACKNOWLEDGEMENT

We feel immense pleasure to introduce "**Fraud Detection Using ML**" as our major project.

We would like to express our special thanks to our teacher KRISHNA KANTA MAITI Sir who has been a constant source of knowledge and inspiration to us, and who gave us the opportunity to do this project.

We would also like to express our gratitude to our beloved parents for their review and many helpful comments and enlightening us and guiding us throughout the finalization of this project within the limited time frame.

We thank all our teachers and as well as friends who have given us that much strength to keep moving on forward every time. We are greatly thankful to one and all and have no words to express our gratitude to them.

Finally, we would like to thank members of RERF family for their moral support and encouragement.

Riki Saha.

Name- Riki Saha
Roll No. - 26371022034
Reg.No- 222630510026 OF 2022-23

Declaration :

I hereby declare that the work, which is being presented in the internship report entitled Fraud Detection using ML in partial fulfilment for the award of Degree of Masters of Computer Application, is a record of our own investigations carried under the guidance of **KRISHNA KANTA MAITI**

1. Abstract:

This project leverages a Random Forest classifier to detect fraudulent activities. Implemented using Python, Flask, and HTML templates, it features a web-based interface for user interaction. Users input three features, and the system predicts whether the activity is fraudulent.

- **Random Forest Model:** Utilizes a robust Random Forest algorithm for high-accuracy fraud detection.
- **Flask Framework:** Provides a lightweight web framework for easy deployment and interaction.
- **Three Input Features**: Accepts three user-provided inputs to make predictions.
- **Secure Data Handling:** Ensures data security with , encryption, and strict access controls.
- **Comprehensive Testing**: Includes unit, integration, and load testing for reliability and performance.

This project exemplifies a practical application of machine learning in fraud detection with a focus on security and usability.

Project Report On

CROP YIELD PREDICTION

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023

Submitted By

Partha Koley (26371022032)
Moumita Payra(26371022007)

Under the guidance of

Shri KRISHNA KANTA MAITI

Assistant Professor

Department of Master of Computer Applications
Regent Education and Research Foundation

Department of Master of Computer Applications
Regent Education and Research Foundation

(Affiliated to Maulana Abul Kalam Azad Universityof Technology,West Bengal)
Barrackpore-700121,Barrackpore,WB

Department of Master of Computer Applications

Submitted to the Regent Education and Research Foundation,RERF

Affiliated to

Maulana Abul Kalam Azad Universityof Technology,
Formerly Known as,
West Bengal University Of Technology, West Bengal
Barrackpore, KOLKATA-700121

Department Of

RERF
Group of Institutions

Certificate of Approval

This is to certify that this report of MCA final year project ,entitled Crop Yield Prediction is the process of accurately predicting the potential yield of a specific crop,during a particular season in a given region ,carried out by Moumita Payra and Partha Koley under my supervision and guidance.

In my opinion , the report in its present form is in partial fulfillment of all the requirements ,as specified by **Regent Education And Research Foundation** and as per regulation of regulation of the **Maulana Abul Kalam Azad University Of Technology**. In fact,it has standard,necessary for submission to the best of my knowledge, the result embodied version of the report for the MCA programme.

Guide / superviser

Mr Krishna Kanata Mati
Department of Master of Computer Application
Regent Education and Research Foundation

31/05/24

Examiner(S)

Head of the Department
Master of Computer Application

Campus: Regent Education & Research Foundation Group of Institutions
Bara Kanthalia(Barrackpore), Post : Senli Telenipara, P.S. : Titagarh, Kolkata - 700121,
Tal. : 033 2535-3051/3052, Fax: 033 2535-3052
Regd. Office :88, Chowringhee Road, Kolkata -70002[illegible] mail: rerfkolkata@gmail.com, Website: www.rerf.co.in
City office: 3rd Floor,60B,Chowringhee Road ,Kolkata-700020,Tel:(+9133)22900112/13/14,Fax No: 033-2290-0115

REGENT EDUCATION AND RESEARCH FOUNDATION
Under
Maulana Abul Kalam Azad university of Technology
Formerly Known as
West Bengal University of Technology
May,2024

BONAFIDE CERTIFICATE

Certificate that the Dissertation on CROP YIELD PREDICTION USING MACHINE LEARNING is the Bonafied work BY MOUMITA PAYRA(26371022007) AND PARTHA KOLEY(26371022032) Carried out under my supervision and guidance in partial fulfillment of the requirements for the award of degree of *Master of Computer Application.*

Signature

prof.Krishna Kanta Mati
HOD,Dept. of MCA

31/05/24

Signature

Prof.Krishna Kanta Mati
Project Guide

SELF CERTIFICATE

This is to certify that the dissertation / project report entitled "Crop Yield Prediction by Machine Learning" is done by me is an authentic work carried out for the partial fulfilment of the requirement for the award of the MCA under the guidance of KRISHNA KANTA MAITI Sir. I also certify that I am aware of the "MCA project & project report" The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Partha Koley / 31/05/24

Name- Partha Koley

Roll No. - 26371022032

Reg.No- 222630510022 OF 2022-23

SELF CERTIFICATE

This is to certify that the dissertation / project report entitled "Crop Yield Prediction by Machine Learning" is done by me is an authentic work carried out for the partial fulfilment of the requirement for the award of the MCA under the guidance of KRISHNA KANTA MATI Sir. I also certify that I am aware of the "MCA project & project report" The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Moumita Payra 31/05/2024

Name- Moumita Payra

Roll No. - 26371022007

Reg.No- 222630510021 OF 2022-23

ACKNOWLEDGEMENT

We feel immense pleasure to introduce "**Crop Yield Prediction by Machine Learning**" as our major project.

We would like to express our special thanks to our teacher KRISHNA KANTA MAITI Sir who has been a constant source of knowledge and inspiration to us, and who gave us the opportunity to do this project.

We would also like to express our gratitude to our beloved parents for their review and many helpful comments and enlightening us and guiding us throughout the finalization of this project within the limited time frame.

We thank all our teachers and as well as friends who have given us that much strength to keep moving on forward every time. We are greatly thankful to one and all and have no words to express our gratitude to them.

Finally, we would like to thank members of RERF family for their moral support and encouragement.

Name- Partha Koley
Roll No. - 26371022032
Reg.No- 222630510022 OF 2022-23

Name- Moumita Payra
Roll No. - 26371022007
Reg.No-222630510021 OF 2022-23

Declaration :

I hereby declare that the work, which is being presented in the internship report entitled Agriculture Production Optimization Engine Using Logistic Regression in partial fulfilment for the award of Degree of Masters of Computer Application, is a record of our own investigations carried under the guidance of **KRISHNA KANTA MAITI**

1. Abstract:

Agriculture is the first and foremost factor for survival. It's the backbone of the Indian Economy as more than 50% Indian's are farmers. Agricultural growth heavily depends upon the climate, quality and types of soil and other such environmental conditions. But the presently available systems like satellite imagery, the results obtained aren't that much accurate. In the economic sector agriculture plays a vital role. Day by day the population is increasing on a large scale which increases the demand for food. The early methods used by farmers are not sufficient enough to fulfill today's requirement, thus new methods are invented which in return brings employment for people. Machine learning Technology in agriculture has helped humans a lot such as identifying particular climate for particular crops similarly, it's soil type, pH value and water supply to the crop. The project consists of implementing a new method for different crops at similar time for larger productivity by predicting it accurately. In this project we are Building a Predictive Model so as to suggest the most suitable crops to grow based on the available Climate and Soil conditions.

The role of machine learning comes in this place. As it has the decision making property ML can be real-world solutions for crop yield prediction. The predictions made by ML algorithm will help the farmers to decide which crop to grow to induce the most yields considering various environmental factors. The present research focuses on predicting the yield of crops by applying various ML techniques and providing a detailed analysis in terms of accuracy. The classifier model used here is Logistics Regression, Native Bayes and Random Forest out of which Random Forest gives the highest accuracy.

REGENT EDUCATION & RESEARCH FOUNDATION

Certificate of Approval

This is to certify that this report of MCA final year project, entitled "**Online Voting System,**" is a record of bona-fide work carried out by Subhankar Manna, Arijit Saha, and Sayan Sahoo.

In my opinion, the report in its present form fulfils all the requirements specified by 'Regent Education and Research Foundation' and adheres to the regulations of the "**Maulana Abul Kalam Azad University of Technology**". The results embodied in this report are original and worthy of incorporation in the current version of the report for the MCA program.

Mrs. Antara Ghosh
Department of Master of Computer Applications
Regent Education and Research Foundation

31/05/24

Examiner (S)

31/05/24

Head of the Department
Master of Computer Applications

Abstract

E-Voting Mitra is a groundbreaking online voting system committed to elevating the democratic process through the integration of state-of-the-art artificial intelligence technologies. Our platform is designed with a focus on security, accessibility, and transparency, representing a paradigm shift in digital democracy.

E-Voting Mitra is harnesses advanced AI algorithms to guarantee the integrity and security of the voting process. Incorporating biometric authentication, anomaly detection, and encrypted protocols, our platform establishes a robust defence against potential threats, ensuring the sanctity of each vote cast.

Department of Master of Computer Applications

Submitted to the Regent Education and Research Foundation, RERF.

Affiliated to

Maulana Abul Kalam Azad University of Technology,

West Bengal

Barrackpore, KOLKATA - 700121

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

Maulana Abul Kalam Azad University of Technology

May, 2024

BONAFIDE CERTIFICATE

Certified that this seminar report titled, "E-VOTER MITRA (online voting system)" is a bona-fide record of work done by **Subhankar Manna** (**26371022015**), **Arijit Saha (26371022016) and Sayan Sahoo (26371022013)** under my supervision, in partial fulfilment for the award of the degree of "**Master of Computer Applications**". Certified further, that to the best of my knowledge, the work reported herein does not form part or full of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion to this.

31/05/24

Signature
Prof. Krishna Kanta Maiti
HOD, Dept. of MCA

Signature
Mrs. Antara Ghosh
Project Guide

Acknowledgment

I extend my sincere gratitude to the faculty of Regent Education & Research Foundation, particularly Mrs. Antara Ghosh, for their unwavering support and guidance throughout the development of my project, "**E-Voting Mitra**".

I am deeply thankful for **Mrs. Antara Ghosh's** insightful feedback, encouragement, and expertise, which have been instrumental in the successful completion of this project. The invaluable lessons I have learned under their mentorship have significantly contributed to the project's quality and scope.

The journey of creating "**E-Voting Mitra**" has been a tremendous learning experience, and I am grateful for the opportunities provided by Regent Education & Research Foundation to explore innovative projects within the academic setting.

I would also like to express my appreciation for the resources and learning environment provided by the college, which have played a crucial role in the development and execution of this project.

Thank you for fostering an atmosphere of intellectual curiosity and for your commitment to nurturing the academic growth of your students.

Subhankar Manna.
Arijit Saha
Sayan Sahoo

Subhankar Manna (26371022015)
Arijit Saha (26371022016)
Sayan Sahoo (26371022013)

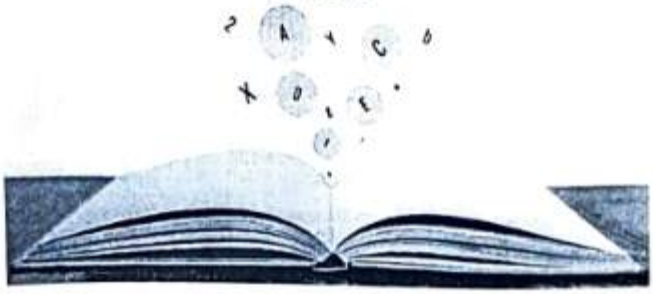
A project report on

"Bookstore Management System"

Submitted to**Regent Education And Research Foundation**

(Affiliated to MaulanaAbulKalam Azad University OfTecgnology)

BOOKSHOP MANAGEMENT SYSTEM



In partial fulfillment for the award of degree of

MASTER DEGREE OF COMPUTER APPLICATIONS

Submitted by

SOURAV PAN(ROLL-NO: 26371022005)

PIYALI DEY (ROLL-NO:26371022004)

SUBHAJIT PRADHAN (ROLL- NO:26371022026)

ANIT DAS (ROLL- NO:26371022003)

Guided by

Soma Mukherjee Sarkar

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(Affiliated to MaulanaAbulKalam Azad University OfTecgnology)

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the Student **Piyalidey , Anit das , SubhajitPradhan , Sourav Pan**of

Regent Education And Research Foundation ,Soma Mukherjee Sarkarcompleted herProject

BOOKSTORE MANAGEMENT SYSTEM during the periodJanuary2024 to May 202rin the

partial fulfillment of MCA.

Name & Signature of Project Guide: **Signature and Seal of Principal.**

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

Maulana Abdul Kalam Azad University of Technology Formerly Known as West Bengal University of Technology May, 2022

BONAFIDE CERTIFICATE

Certified that the Dissertation on Bookstore Management System is the Bonafide work By Sourav Pan, Anit das, Piyali Dey, Subhajit Pradhan bearing carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

Krishna ... 05/24

REGENT EDUCATION & RESEARCH FOUNDATION HOD MCA

Signature Prof. HOD,
Krishna Kanti Maity
Dept. of MCA

Signature Prof
SOMA MUKHERJEE SARKAR
Project Guide

Certificate of Approval

This is to certify that this report of MCA final year project, Bookstore Management System is a record of bona-fide work, carried out by Sourav Pan, Anit das, Piyali Dey, Subhajit Pradhan under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by Regent Education And Research Foundation and as per regulation of the Maulana Abul Kalam Azad University Of Technology. In fact it has standard, necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA program.

Guide/supervisor

Ms. SOMA MUKHERJEE SARKAR
Department of Master of Computer Application
Regent Education And Research Foundation

31/05/24

Examiner (S)

Head of [illegible]
Master of [illegible]

Campus: Regent Education & Research Foundation Group of Institutions

Bara Kanthalia (Barrackpore), Post: Sewli Telinipara, PS: Titagarh, Kolkata-700 121. Tel: 033 2535- 30513052, Fax: 033 2435-3852, E-mail: rertholkata@gmail.com, Website: https://www.rerf.in/

ACKNOWLEGEMENT

We have taken efforts in this project. However, it would not have been possible without the kind support and help of our Faculties. We would like to extend my sincere thanks to all of them.

We are highly indebted to Regent Education And Research Foundation.**Soma Mukherjee Sarkar**for her guidance and constant supervision as well as for providing necessary information regarding the project & also for his support in completing the project.

We have to appreciate the guidance given by other supervisor as well as the panels especially in our project presentation that has improved our presentation skills thanks to his comment and advices.

We would like to express our special gratitude and thanks to all above mentioned people for giving us such attention and time. Our thanks and appreciations also go to our member in developing the project and people who have willingly helped us out with their abilities.

Piyali Dey, Amit Das, Subhajit Pradhan, Sourav Pan

ABSTRACT

Bookstore Management System is basically used to build an web application program which help people to find and buy latest design of Books with different categories like Biography, Programming, Management, etc. It is useful in the way that it makes an easier way to buy Personal Bookstore.

Today most of the book shop is useful for shopping site. The admin have lots of paper work and they are using desktop, spread sheet like MS Excel application to manage data in soft copy about user record. In this proposed Bookstore System it will run in server and user can handle whole the registration activities.

This application maintains the centralized database so that any changes done at a location reflects immediately. This is an online tool so more than one user can login into system and use the tool simultaneously.

The aim of this application is to reduce the manual effort needed to manage transactions and historical data used in various gods owns. Also this application provides an interface to users to view the details And Design about Bookstore.

Project Report On

Medical Diagnostic Center

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Application Degree of the Maulana Abul Kalam Azad University of Technology for the year 2023-2024"

Submitted by

Soumen Jantua (26371022006)
Abhiroop Achari (26371022017)
Debansu Bhadra (26371022040)
Rajesh Pal (26371022041)

Under the guidance of
Prof. Soma Sarkar Mukherjee
Dept. of Master of Computer Application
Regent Education and Research Foundation

Department of ***Master of Computer Application***
Regent Education and Research Foundation
(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)
Barrackpore – 700121, Barrackpore, WB

Department of Master of Computer Application

Submitted to the Regent Education and Research Foundation, RERF

Affiliated to

Maulana Abul Kalam Azad University of Technology.

Formerly Known as

West Bengal University of Technology, West Bengal

Barrackpore, Kolkata – 700121

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Certificate of Approval

This is to certify that this report of MCA final year project, entitled Real Estate price prediction is a record of bona-fide work, carried out by Soumen Jantua, Abhiroop Achari, Debansu Bhadra, Rajesh Pal under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by **Regent Education and Research Foundation** and as per regulation of the **Maulana Abul Kalam Azad University of Technology**. In fact, it has standard, necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme.

S Sarkar
31.5.2024

Guide/Supervisor

Soma Mukherjee Sarkar
Department of Master of Computer Application
Regent Education and Research Foundation

31/05/24

Examiner (S)

K Mishra 31/5/24

Head of the Department
Master of Computer Application

REGENT EDUCATION & RESEARCH FOUNDATION HOD MCA

Regent Education & Research Foundation MCA

ACKNOWLADGEMENT

This project entitled "**MEDICAL DIAGONOSTIC CENTER**", through a result of own effort, however a subject of such a complicated nature could not have been addressed without the intellectual sights.

I would also like to thank our project guide **Prof. Soma Sarkar Mukherjee** mam, of Dept. Master of Computer Application for his governance and guidance, because of which our whole team was able to learn the minute aspects of a project work. Therefore, I owe a great deal of my gratitude to my project guide and my group members and my friends for their constant supporting me and helping me to complete this project.

All of our team member is thankful to Head of the Department **Prof. Krishna Kanta Maiti** Sir & all the faculties and staff of Department of MCA, RERF, for their help and support towards this project and our team.

I am grateful to each and every dear member of my project for providing tremendous support, advise, guidance and assistance involved in completing this project.

Soumen Jantua
Abhiroop Achari
Debansu Bhadra
Rajesh Pal

Soumen Jantua (26371022006)
Abhiroop Achari (26371022017)
Debansu Bhadra (26371022040)
Rajesh Pal (26371022041)

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Formerly known as
WEST BENGAL UNIVERSITY OF TECHNOLOGY
May, 2022

BONAFIDE CERTIFICATE

Certified that the Dissertation on SENTIMENT ANALYSIS ON COVID-19 TWEETS USING MACHINE LEARNING is the Bonafide work BY SOUMEN JANTUA-26371022006, ABHIROOP ACHARI-26371022017, DEBANSU BHADRA-26371022040, RAJESH PAL-26371022041 bearing roll number carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

31/05/24

Prof. Kr[illegible] [illegible]aiti
HOD, Dept. of MCA

REGENT EDUCATION & RESEARCH FOUNDATION HOD MCA

31.5.2024

Signature
Prof. Soma Mukherjee Sarkar
Project Guide

Abstract

The increasing digitization of healthcare services has paved the way for innovative solutions aimed at enhancing medical diagnostics and patient care. This project centers on the development of a web application for a medical diagnostic center, designed to streamline the process of scheduling appointments, accessing test results, and facilitating communication between healthcare providers and patients.

The primary objective of this web application is to provide a user-friendly platform that enables patients to conveniently book appointments for diagnostic tests and procedures from the comfort of their homes. Through intuitive interface design and seamless navigation, users will be able to book doctor appointment, select preferred date, and receive instant confirmation of their bookings.

Moreover, the web application will incorporate features to empower patients with easy access to their medical records and test results.

In addition to patient-facing functionalities, the web application will offer administrative tools to staff members within the diagnostic center. From managing appointment schedules and assigning resources to generating analytical reports, the platform will streamline internal workflows and optimize resource allocation for improved operational efficiency.

By leveraging the capabilities of web technology, this project aims to bridge the gap between healthcare providers and patients, fostering greater accessibility, transparency, and engagement in the realm of medical diagnostics. Through continuous iteration and feedback-driven refinement, the web application seeks to evolve into a valuable asset for the diagnostic center, empowering stakeholders to deliver quality care and enhance patient outcomes in the digital age.

Project Report On

Colon Cancer Prediction using ML

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2023-2024"

Submitted by

Sweta Das(26371022019)

Akash Biswas (26371022030)

Moni Chowdhury(26371022036)

Sonia Majumder(26371022012)

Under the guidance of

Shri Krishna Kanta Maiti

Head of the Department

Dept of Master of Computer Applications

Regent Education and Research Foundation

Department of ***Master of Computer Applications***

Regent Education and Research Foundation

(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)

Barrackpore – 700121, Barrackpore, WB

Department of Master of Computer Applications

Submitted to the Regent Education and Research Foundation, RERF

Affiliated to

Maulana Abul Kalam Azad University of Technology,

Formerly Known as

West Bengal University of Technology, West Bengal

Barrackpore, Kolkata – 700121

REGENT

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RESEARCH FOUNDATION

Certificate of Approval

This is to certify that this report of MCA final year project, entitled Real Estate price prediction is a record of bona-fide work, carried out by Sweta Das, Akash Biswas, Moni Chowdhury, Sonia Majumder under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by **Regent Education and Research Foundation** and as per regulation of the **Maulana Abul Kalam Azad University of Technology**. In fact, it has standard, necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation n in the present version of the report for MCA programme.

Guide/Supervisor Name

Department of Master of Computer Application

Regent Education and Research Foundation

31/05/24

Examiner (S)

31/05/24

Head of the Department
Master of Computer Application

Campus: **Regent Education and Research Foundation Group of Institution**
Bara Kanthalia (Barrackpore), Post: Sewli Telinipara, P.S.: Titagarh, Kolkata – 700121, Tel.: 033 2535-3051/3052, Fax: 033 2535-3052
Regd. Office: 88, Chowringhee Road, Kolkata – 700020, Tel.: (+91 33) 2290 0112/13/14, Fax No.: 033-2290-0115
City office: 3rd Floor, 60B, Chowringhee Road, Kolkata – 700020, Tel.: (+91 33) 2290 0112/13/14, Fax No.: 033-2290-0115

ACKNOWLEDGEMENT

This project entitled **"Colon Cancer Prediction using ML"**, though a result of own effort however; a subject of such a complicated nature could not have been addressed without the intellectual in sights.

We would like to thank our project guide Shri Krishna Kanta Maity Sir for his governance and guidance, because of which our whole team was able to learn the minute aspects of a project work.

All of our team is thankful to Head of the Department Shri Krishna Kanta Maity Sir & all the faculties and staff of Department of MCA, RERF, for their help and support towards this project and our team.

We are grateful to each and every dear member of my project whose help. advise, guidance and assistance involved in completing this project.

We are also grateful to my parents and friends for supporting me directly during the project.

Sweta Das.
Akash Biswas
Moni Chowdhury
Sonia Majumder.

Sweta Das(26371022019)

Akash Biswas (26371022030)

Moni Chowdhury(26371022036)

Sonia Majumder(26371022012)

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

MAULANA ABDUL KALAM AZAD UNIVERSITY OF TECHNOLOGY

Formerly known as

WEST BENGAL UNIVERSITY OF TECHNOLOGY

May, 2022

BONAFIDE CERTIFICATE

Certified that the Dissertation on COLON CANCER PREDICTION ACCURACY ANALYSIS USING ML is the Bonafide work BY SWETA DAS, AKASH BISWAS, MONI CHOWDHURY, SONIA MAZUMDER bearing roll number 26371022019, 26371022030, 26371022036, and 26371022012 carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

Signature
Prof.
HOD, Dept. of MCA

REGENT EDUCATION & RESEARCH FOUNDATION HOD MCA

31/05/22

Signature
Prof.
Project Guide

Abstract

Background: Colon cancer is a significant contributor to cancer-related mortality in India, just as it is in the United States and globally. Understanding the molecular aspects of this disease, such as gene expression patterns and genetic mutations, can offer valuable insights for more precise diagnosis and treatment. Transcription factors, which are key controllers of gene activity, have the potential to serve as essential markers for predicting the prognosis of colon cancer in India, but their application in this context remains limited and vital.

Method: We have considered a reference dataset of Gene Sample to analyse the data and understand the DNA, RNA, and protein proportion for each gene ID. A detailed and consolidated value has been extracted from the reference dataset which has been further normalized to a readable data work set. Multiple steps and procedures are included for data refining. Overlapping analysis and re-filtration of data utilising R programming. After the filtration process we have implemented decision tree algorithm to generate the R plot and perform the Accuracy Analysis.

Results: Through the normalization method, the collected data is now in a more readable format. One can understand the stage/phase of the colon cancer by the gene ID attached with it. Implementation of Decision tree algorithm for training the dataset to resulted in approximate accuracy analysis.

Conclusion: The purpose of this practice is to train the datasets for machine learning and advancement of biotechnology for prediction of Colon Cancer levels present in multiple gene samples.

Project Report On

Nobel Classification Approach For Color Image Segmentation

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2023-2024"

Submitted by

Sangita Nandi (26371022029)

Riya Das (26371022009)

Saptarshi Sarkar (26371022010)

Hasina Sultana (26371022011)

Under the guidance of

Shri Krishna Kanta Maiti

Assistant Professor

Dept of Master of Computer Application

Regent Education and Research Foundation Group Of Institution

Department of ***Master of Computer Application***

Regent Education and Research Foundation Group Of Institution

(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)

Barrackpore – 700121, Barrackpore, WB

Department of Master of Computer Application

Submitted to the Regent Education and Research Foundation Group Of Institution, RERF

Affiliated to

Maulana Abul Kalam Azad University of Technology,

Formerly Known as

West Bengal University of Technology, West Bengal

Barrackpore, Kolkata – 700121

REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTION

Certificate of Approval

This is to certify that this report of MCA final year project, entitled Real Estate price prediction is a record of bona-fide work, carried out by Sangita Nandi, Riya Das, Saptarshi Sarkar, Hasina Sultana under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by **Regent Education and Research Foundation Group Of Institution** and as per regulation of the **Maulana Abul Kalam Azad University of Technology**. In fact, it has standard, necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme.

31/05/24

Guide/Supervisor

Krishna Kanta Maiti

Department of Master of Computer Application

Regent Education and Research Foundation Group Of Institution

31/05/24

Examiner (S)

31/05/24

Head of the department
Master of Computer Application

ACKNOWLEDGEMENT

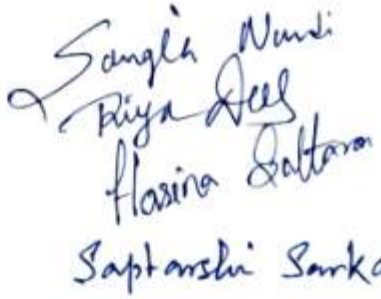
This project entitled " Nobel Classification Approach For Color Image Segmentation ", though a result of own effort however; a subject of such a complicated nature could not have been addressed without the intellectual in sights.

We would like to thank our project guide Mr. **Krishna Kanta Maiti** Sir for his governance and guidance, because of which our whole team was able to learn the minute aspects of a project work.

All of our team is thankful to Head of the Department Mr. **Krishna Kanta Maiti** Sir & all the faculties and staff of Department of MCA, RERF, for their help and support towards this project and our team.

We are grateful to each and every dear member of my project whose help. advise, guidance and assistance involved in completing this project.

We are also grateful to my parents and friends for supporting me directly during the project.



Sangita Nandi (26371022029)

Riya Das (26371022009)

Saptarshi Sarkar (26371022010)

Hasina Sultana (26371022011)

ABSTRACT

The Nobel Classification Approach for color image segmentation introduces a novel methodology that enhances the accuracy and robustness of segmenting color images. Traditional segmentation methods often face challenges with complex images, varying lighting conditions, and overlapping objects. This approach addresses these issues by integrating advanced machine learning techniques with comprehensive feature extraction and post-processing methods.

The core of the Nobel Classification Approach consists of three key components: feature extraction, classification, and post-processing. Feature extraction involves capturing essential characteristics of image regions through color histograms, texture descriptors, and spatial information. Classification is performed using powerful algorithms such as classification approach of supervised learning, which assign pixels or pixel groups to specific classes representing different image segments. Post-processing techniques, including morphological operations and conditional random fields (CRFs), refine the segmentation results by smoothing boundaries and removing noise.

This approach significantly improves segmentation accuracy and robustness compared to traditional methods. Its adaptability allows for application across various domains, including medical imaging, autonomous vehicles, surveillance systems, and content-based image retrieval. The Nobel Classification Approach represents a substantial advancement in color image segmentation, providing a reliable and versatile tool for a wide range of practical applications.

Project Report On

Silverstar Tune (e-commerce project)

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of

Technology for the year 2023-2024"

Submitted by

Sunny Das (26371022042)

Tirtharaj Das (26371022043)

Tanmoy Sarkar (26371022035)

Rahul Kumar Shah (26371022026)

Under the guidance of

Mrs. Antara Ghosh

Assistant Professor

Dept of Master of Computer Applications

Regent Education and Research Foundation

Department of ***Master of Computer Applications***

Regent Education and Research Foundation

(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)

Barrackpore – 700121, Barrackpore, WB

Department of Master of Computer Applications

Submitted to the Regent Education and Research Foundation, RERF

Affiliated to

Maulana Abul Kalam Azad University of Technology,

Formerly Known as

West Bengal University of Technology, West Bengal

Barrackpore, Kolkata – 700121

REGENT

EDUCATION&

RESEARCH FOUNDATION

Certificate of Approval

This is to certify that this report of MCA final year project, entitled Real Estate price prediction is a record of bona-fide work, carried out by Sunny Das, Tirtharaj Das, Tanmoy Sarkar, Rahul kumar Shah, under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by **Regent Education and Research Foundation** and as per regulation of the **Maulana Abul Kalam Azad University of Technology**. In fact,it has standard,necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme.

Guide/Supervisor

Name

31/05/24

Examiner (S)

Head of the department
Master of Computer Application

Department of Master of Computer Application

Regent Education and Research Foundation

ACKNOWLEDGEMENT

This project entitled "**Silvestar Tune(E-commerce website)**", though a result of own effort however; a subject of such a complicated nature could not have been addressed without the intellectual in sights.

We would like to thank our project guide (**Mrs. Antara Ghosh**) mam for his governance and guidance, because of which our whole team was able to learn the minute aspects of a project work.

All of our team is thankful to Head of the Department (**Mr. Krishna Kanti Maity**) Sir & all the faculties and staff of Department of MCA, RERF, for their help and support towards this project and our team.

We are grateful to each and every dear member of my project whose help, advise, guidance and assistance involved in completing this project.

We are also grateful to my parents and friends for supporting me directly during the project.

Sunny Das **Sunny das(26371022042)**

Tirtharaj Das **Tirtharaj Das(26371022043)**

Tanmoy Sarkar **Tanmoy Sarkar(26371022035)**

Rahul Kumar Shah **Rahul Kumar Shah(26371022026)**

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

MAULANA ABDUL KALAM AZAD UNIVERSITY OF TECHNOLOGY

Formerlyknown as

WEST BENGAL UNIVERSITY OF TECHNOLOGY

May, 2022

BONAFIDE CERTIFICATE

Certified that the Dissertation on SENTIMENT ANALYSIS ON COVID-19 TWEETS USING MACHINE LEARNING is the Bonafide work BY Sunny Das , Tirtharaj Das ,Tanmoy Sarkar , Rahul Kumar Shah bearing carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

Signature Prof.
HOD

Signature Prof.
Project Guide

ABSTRACT

In today's fast-changing business environment, it's extremely important to be able to respond to client needs in the most effective and timely manner. If your customers wish to see your business online and have instant access to your products or services.

Online Shopping is a lifestyle e-commerce web application, which retails various fashion and lifestyle products (Currently Sterio Headphones). This project allows viewing various products available enables registered users to purchase desired products instantly using PayPal payment processor (Instant Pay) and also can place order by using Cash on Delivery (Pay Later) option. This project provides an easy access to Administrators and Managers to view orders placed using Pay Later and Instant Pay options.

In order to develop an e-commerce website, a number of Technologies must be studied and understood. These include multi-tiered architecture, server and client side scripting techniques, implementation technologies, programming language (such as Core PHP) and relational databases. This is a project with the objective to develop a basic website where a consumer is provided with a shopping cart application and also to know about the technologies used to develop such an application.

This document will discuss each of the underlying technologies to create and implement an e-commerce website.

Project Report On

ENERGY CONSUMPTION FORECASTING

"A dissertation submitted in partial fulfilment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023."

Submitted by

Akshay Kumar Chatterjee (26371022031)

Under the guidance of

Shri Krishna Kanta Maiti

Assistant Professor

Dept of Master of Computer Applications

Regent Education and Research Foundation

Department Of ***Master of Computer Applications***

Regent Education and Research Foundation

(Affiliated to Maulana Abul Kalam Alad University of technology, West Bengal)

Barrackpore - 700121, Barrackpore, WB

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Submitted to the Regent Education and Research Foundation, RERF

Affiliated to

Maulana Abul Kalam Azad University of Technology,

Formerly known as,

West Bengal University of Technology, West Bengal

Barrackpore, KOLKATA -700121

Department of Computer Application

REGENT EDUCATION &

RESEARCH FOUNDATION

Certificate of Approval

This is to certify that this report of MCA final year project, entitled *energy consumption forecasting* is a record of bona-fide work, carried out by Akshay Kumar Chatterjee under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfilment of all the requirements, as specified by ***Regent Education and Research Foundation*** and as per regulation of the ***Maulana Abul Kalam Azad University of Technology***. In fact, it has standard necessary for submission to the best of my knowledge the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme.

Guide/ Supervisor

Mr Krishna Kanta Mati

Department of Master of Computer Application

Regent Education and Research Foundation

31/05/24

Examiner (S)

Head of the Department
Master of Computer Application

HOD MCA

Regent Education & Research Foundation MCA

ACKNOWLEDGEMENT

This project entitled " ***Energy Consumption Forecasting*** ", though a result of own effort; however, a subject of such a complicated nature could not have been addressed without the intellectual in sights.

I would like to thank our project guide Mr. Krishna Kanta Maiti Sir for his governance and guidance, because of which our whole team was able to learn the minute aspects of a project work.

I am thankful to Head of the Department Mr. Krishna Kanta Maiti & all the faculties and staff of Department of MCA, RERF, for their help and support towards this project and our team.

I am grateful to each dear friends whose help, advise, guidance and assistance involved in completing this project.

I am also grateful to my parents and friends for supporting me directly during the project.

Akshay Kumar Chatterjee

Akshay Kumar Chatterjee (26371022031)

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

Maulana Abdul Kalam Azad University of Technology

Formerly Known as

West Bengal University of Technology

May 2022

BONAFIDE CERTIFICATE

Certified that the Dissertation on *ENERGY CONSUMPTION FORECASTING: USE TIME SERIES ANALYSIS AND MACHINE LEARNING ALGORITHMS TO FORECAST ENERGY CONSUMPTION PATTERNS AND OPTIMIZE ENERGY USAGE* is the Bonafide work BY AKSHAY KUMAR CHATTERJEE bearing roll number 26371022031 carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

21/05/22

Signature

Prof. Krishna Kanta Maiti

HOD, Dept. of MCA

REGENT EDUCATION & RESEARCH FOUNDATION HOD MCA

Signature

Prof. Krishna Kanta Maiti

Project Guide

Project Report On

AI-Based Course Management System

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2022-2024"

Submitted by

Sayan Mukhopadhyay Roll No. - 26371022028
Md Soaib Ansari Roll No. - 26371022022
Eshika Roy Roll No. - 26371022021

Under the guidance of
Ms. Antara Ghosh

Assistant Professor
Dept of Master of Computer Applications
Regent Education and Research Foundation

Department of Master of Computer Applications
Regent Education and Research Foundation
(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)
Barrackpore - 700121, Barrackpore, WB

REGENT EDUCATION & RESEARCH FOUNDATION

Certificate of Approval

This is to certify that this report of MCA final year project, entitled AI-Based Course Management System is a record of bona-fide work, carried out by Sayan Mukhopadhyay, Md Soaib Ansari and Eshika Roy under my supervision and guidance

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by Regent Education And Research Foundation and as per regulation of the Maulana Abul Kalam Azad University Of Technology. In fact, it has standard, necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme

Guide/Supervisor

Ms. Antara Ghosh
Department of Master of Computer Application
Regent Education And Research Foundation

31/05/24

Examiner(s)

Head of the Department
Master of Computer Application

Campus: Regent Education & Research Foundation Group of Institutions Bara Kanthalia (Barrackpore), Post : Sewli Telinipara, P.S.: Titagarh, Kolkata - 700 121, Tel.: 033 2535-3051/3052, Fax: 033 2535-3052 Regd. Office: 88, Chowringhee Road, Kolkata - 700 020, E-mail: rerfkolkata@gmail.com, Website: www.reef.co.in City Office: 3rd Floor, 60B, Chowringhee Road, Kolkata 700 020, Tel: (+91 33) 2290 0112/13/14, Fax No.: 033-2290-0115

ACKNOWLEDGEMENT

The development of the AI-based Course Management System has been a collaborative and innovative journey. This project would not have been possible without the dedication and hard work of numerous individuals and organizations.

First and foremost, we would like to express my sincere gratitude to our mentors and advisors, whose guidance and expertise have been invaluable throughout the development process. Their insights and feedback have greatly enhanced the quality and functionality of the platform.

We extend our heartfelt thanks to our team members, whose unwavering commitment and technical prowess have brought this project to life. Your collaborative spirit and relentless pursuit of excellence have been truly inspiring.

Special thanks to the developers and contributors of the various technologies used in this project: Next.js, Tailwind CSS, Vercel, Stripe, Google Gemini AI, Firebase, and Firestore. Your tools and platforms have provided the robust foundation upon which this project is built.

We are also grateful to the early testers and users of the platform, whose feedback has been crucial in refining the user experience and functionality. Your input has been instrumental in shaping the final product.

Finally, we would like to thank our family and friends for their constant support and encouragement. Your belief in my vision has been a source of strength and motivation throughout this journey.

Thank you all for your contributions and support in making the AI-based Course Management System a reality. This achievement is a testament to our collective effort and dedication to advancing education through technology.

Sincerely,

Sayan Mukhopadhyay
Md Soaib Ansari
Eshika Roy

Sayan Mukhopadhyay,
Md Soaib Ansari
Eshika Roy

Project Synopsis

The **AI-Based Course Management System** is an innovative online learning system designed to enhance education for both professionals and students. This system leverages **advanced AI technology** to provide **personalized learning experiences**, making education more engaging and accessible.

Once enrolled, users gain access to an interactive course page featuring **video** and **article** content for each topic. The system allows learners to navigate freely through the material and provides an **AI-powered chat interface** for real-time feedback and support, enhancing the overall learning experience.

The primary aim of this project is to study how **AI** can be integrated into learning systems to enable better learning experiences. By leveraging **Generative AI technology** and **Large Language Models (LLMs),** the system seeks to provide **personalized course recommendations**, **real-time support**, and an **interactive learning environment.** This approach aims to make learning more efficient, tailored, and accessible, ultimately enhancing the overall educational experience for users.

Through this project, we aim to explore the potential of **AI** in transforming online education and to demonstrate how advanced technologies can be used to meet the diverse needs of learners in a rapidly evolving digital landscape.

Regent
Education and Research Foundation

Barrackpore, West Bengal ,700121

Project Report On

Online Examination System

"A dissertation submitted in partial fulfilment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

JOYDIP MANDAL	ROLL - 26371022037
DEBABRATA MONDAL	ROLL - 26371022038
MAINAK PRAMNIK	ROLL - 26371022039

Under the guidance of

Ms. SOMA MUKHERJEE SARKAR

Assistant Professor

Dept of Master of Computer Applications Regent Education and Research Foundation

Department of Master of Computer Applications

Regent Education and Research Foundation (Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal) Barrackpore - 700121, Barrackpore, WB

REGENT EDUCATION AND RESEARCH FOUNDATION

Under

Maulana Abdul Kalam Azad University of Technology Formerly Known as

West Bengal University of Technology May, 2022

BONAFIDE CERTIFICATE

Certified that the Dissertation on Online Examination System USING PHP is the Bonafide work By Joydip Mandal, Debabrata Mondal And Mainak Pramnik bearing carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

Signature Prof. Krishna Kanti Mandal, Dept. of MCA

HOD MCA

Signature Prof

SOMA MUKHERJEE SARKAR Project Guide

Certificate of Approval

This is to certify that this report of MCA final year project, Online Examination System is a record of bona-fide work, carried out by Joydip Mandal, Debabrata Mondal and Mainak Pramanik under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by Regent Education And Research Foundation and as per regulation of the Maulana Abul Kalam Azad University Of Technology. In fact it has standard, necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme.

S. Sarkar
31.5.2024
Guide/supervisor

Ms. SOMA MUKHERJEE SARKAR

Department of Master of Computer Application

Regent Education And Research Foundation

31/05/24
Examiner (S)

Head of the Department
Master of Computer Application

HOD MCA

Campus: Regent Education & Research Foundation Group of Institutions

Bara Kanthalia (Barrackpore), Post: Senli Telinipars, PS: Titsgarh, Kolkata-700 121, Tel: 633 2535-30513052, Fax: 033 2435-3852 Regd. Office: 88, Chowringher Rood, Kolkata-700 020, E-mail: rerfholkata@gmail.com, Website: www.rerfanin City Offier: 3rd Floor, 60B, Chuwringher Road, Kolkata 700 620, Tel: +91 33) 2290 0112/13/14, Fas No.: 033-2290-0115

Regent Education & Research Foundation MCA 3

ABSTRACT

Internet is the means for people to communicate, fulfil their needs and exchanging ideas. Applications on Internet is playing very vital role now a days. Internet made this world into aglobal ville. Now a days Internet is means to full-fill your desire at mouse click and roam around the world sitting in front of your computer .This Website gives information about the Libraaa Computer Education, which provides certificate courses in computers. It has branches all over the city. The main screen appears which consist information about how to follow through the application .Once the client selects his option from the homepage, he will be forwarded into the details. If the user wants to know about the history of institution he can click on ABOUT-US and the details of the courses available in this institution can click on COURSE DETAILS. If the user is the new person he can register his User-id by using student registration form. If the student alreadyregistered can write the examination. Information regarding the details of the student will be displayed in the browser and a client can fulfil the details and can register in the institute that the management will keep in touch with him. Details of the course will be displayed from the course information module.

ACKNOWLEDGEMENT

This project entitled " Online Examination System Online Examination System ", though a result of own effort however; a subject of such a complicated nature could not have been addressed without the intellectual in sights.

We would like to thank our project guide SOMA MUKHERJEE SARKAR ma'am for his governance and guidance, because of which our whole team was able to learn the minute aspects of a project work.

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We are also grateful to my parents and friends for supporting me directly during the project.

Mainak Pramanik
Debabrata Mondal
Joydip Mandal

JOYDIP MANDAL ROLL - 26371022037

DEBABRATA MONDAL ROLL - 26371022038

MAINAK PRAMNIK ROLL - 26371022039

A PROJECT REPORT ON

Corruption Control Web Platform

"A dissertation submitted in partial fulfillment of the requirements of Master of Computer Applications Degree of the Maulana Abul Kalam Azad University of Technology for the year 2023-2024"

Submitted by

AnaghBasak(26371022027)
DebopriyaGanguly(26371022018)
Deep Bairagya(26371022014)
SanjoySarkar(26371022033)

Under the guidance of
Shri Krishna KantaMaiti
Head of the department
Dept of ***Master of Computer Applications***

Regent Education and Research Foundation
(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)
Barrackpore - 700121, Barrackpore, WB

Year: 2023-2024

REGENTEDUCATION
&
RESEARCH FOUNDATION

Certificate of Approval

This is to certify that this report of MCA final year projectCorruption Control Web Platform is a record of bona-fide work, carried out*AnaghBasak,DebopriyaGanguly, Deep Bairagya and SanjoySarkar* under my supervision and guidance.

In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by Regent Education & Research Foundation and as per regulation of the Maulana Abul Kalam Azad University Of Technology. In fact it has standard,necessary for submission to the best of my knowledge, the result embodied in this report, are original in nature and worthy for incorporation in the present version of the report for MCA programme.

Guide/Supervisor
Mr. Krishna Kanta Mati (HOD)
Department of Master of Computer Application

31/05/24

Examiner

Head of the Department

HOD MCA

Regent Education & Research Foundation MCA

BONAFIDE CERTIFICATE

Certified that the Web Application on Corruption control using social media is the bonafied work by:

i) AnaghBasak (26371022027)
ii) DebopriyaGanguly (26371022018)
iii) Deep Bairagya (26371022014)
iv) Sanjoy Sarkar (26371022033)

carried out under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Master of Computer Application.

Signature
Prof. Krishna Kanta Mati (HOD)
Dept. of MCA

Signature
Prof. Krishna Kanta Mati (HOD)
Project Guide

DECLARATION

We hereby declare that this submission is our own work and that, to the best of my knowledge and belief, it contains no materials previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature: Anagh Basak
Name: Anagh Basak
Roll No: 26371022027
Date: 31.5.2024

Signature: Debapriya Ganguly
Name: Debapriya Ganguly.
Roll No: 26371022018
Date: 31.05.2024

Signature: Deep Bairagya
Name: Deep Bairagya
Roll No: 26371022014
Date: 31.05.2024.

Signature: Sanjoy Sarkar
Name: Sanjoy Sarkar
Roll No: 26371022033
Date: 31.05.2024

ACKNOWLEDGEMENT

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Signature: Anagh Basak
Name: Anagh Basak
Roll No: 26371022027
Date: 31.5.2024

Signature: Debopriya Ganguly
Name: Debopriya Ganguly
Roll No: 26371022018
Date: 31.05.2024

Signature: Deep Bairagya
Name: Deep Bairagya
Roll No: 26371022014
Date: 31.05.2024.

Signature: Sanjoy Sarkar
Name: Sanjoy Sarkar
Roll No: 26371022033
Date: 31.05.2024

ABSTRACT

A corruption control website is a platform that aims to combat and prevent corruption by providing information, resources, and tools for individuals and organizations to understand and address corruption in their communities and workplaces. This may include information on anti- corruption law and regulations, reporting mechanisms for reporting corruption and resources for organizations to implement anti-corruption measures. Additionally, our website may also provide a platform for individuals and organizations to share their experiences and best practices in addressing corruption.

The Corruption Control Website features an intuitive user interface, ensuring ease of use for individuals with varying levels of technical proficiency. Key functionalities include a secure and anonymous reporting system, a database of reported cases, tools for data analysis and visualization, and educational resources about corruption and its impacts. Additionally, the website integrates with government databases and third-party watchdog organizations to verify reports and streamline the investigative process.

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