Project Report On
VOICE ASSISTANT

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2019-2023"

Submitted by

NAYAN SAHA (26300120042)
SAYAN KONER (26300119001)
ANIRBAN ROY (26300120045)
ROHAN SAMANTA (26300119028)
RAGHUNATH MONDAL (26300120040)

Under the guidance of
Ms. BARNITA DAS
Assistant professor
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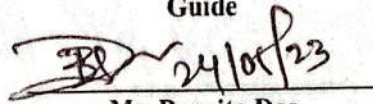
i

Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled **"Voice Assistant"** is a record of bona-fide work, carried out by **Nayan Saha, Sayan Koner, Anirban Roy, Rohan Samanta, Raghunath Mondal** 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2019-2023.
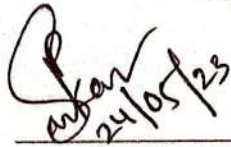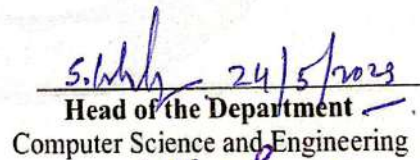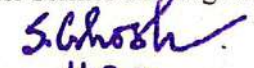
Guide

24/05/23

Ms. Barnita Das
Assistant professor
Department of Computer Science and Engineering
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24/05/23

_____
Examiner(s)

S. 24/5/2023

Head of the Department
Computer Science and Engineering

S.Ghosh

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City Office : 3rd Floor, 60B Chowringhee Road, Kolkata - 700 020, Tel : (+91 33) 2290 0112 / 13 / 14 , Fax No.: 033-2290-0115

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ACKNOWLEDGEMENT

Project Report On

"ONLINE LIBRARY MANAGEMENT SYSTEM"

"A dissertation submitted in partial full fillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

Name	Roll No
1. Priti Yadav -	(26300119056)
2. Durba Paul -	(26300119015)
3. Radha Rani -	(26300119003)

Under the guidance of
Ms. Pragati Ghosh

Assistant Professor
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Barrackpore Kolkata -700121

I

Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "**Online Library Management System**" is a record of bona-fide work, carried out by **Radha Rani, Durba Paul, Prity Yadav** 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 the **Regent Education and Research Foundation** and as per regulations of the Maulana Abul Kalam Azad University of Technology. In fact, it has attained the standard necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

Ghosh 24/5/23

Ms. Pragati Ghosh

Designation: Assistant Professor

Department of Computer Science and Engineering

Regent Education and Research Foundation

_24/05/23_

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_S. 24/05/2023_

Head of the Department

Computer Science And Engineering

Regent Education and Research Foundation

SGhosh
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COLLEGE CODE 203

ACKNOWLEDGEMENT

On the very outset of this report, we would like to extend our sincere and heartfelt obligation towards all the personages who have helped us in this endeavor.

We would also like to take this opportunity to express our profound gratitude and deep regards to our project guide **Ms. Pragati Ghosh** for her exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by her time shall carry us a long way in the journey of life on which we are about to embark.

We would also like to express our deep sense of gratitude to **Mr. Subhankar Ghosh** (Head of the department, Computer ,Regent Education & Research Foundation),for his cordial support, valuable information and guidance, which helped us in completing this task at various stages.

We are obliged to the staff of the Computer Science Department, Regent Education & Research Foundation, for the information provided by them in their respective fields. We are grateful for their cooperation provided during the period of our project.

Lastly, we thank the almighty, our parents ,sister and friends for their constant encouragement without which this project would not be possible.

Priti Yadav
Roll No.-26300119056

Durba Paul
Roll No.-26300119015

Radha Rani
Roll no.-26300119003

Project Report On

Ecommerce Website

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

SUDIP BISWAS (26300120044)

SHUBHAJEET KOHAR (26300119047)

SOUMYASREE MAJUMDER (26300119004)

Under the guidance of
Ms. BARNITA DAS

Assistant Professor

Dept of Computer Science & Engineering

Regent Education and Research Foundation

Department of Computer Science and Engineering
Regent Education and Research Foundation

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

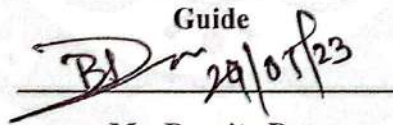*Barrackpore - 700121, Barrackpore, WB*

<u>Certificate of Approval</u>

This is to certify that this report of B. Tech. Final Year project on online shopping website, entitled "CustomMonkey" is a record of bona-fide work, carried out by **Sudip Biswas, Shubhajeet Kohar and Soumyasree Majumder** under my supervision and guidance.
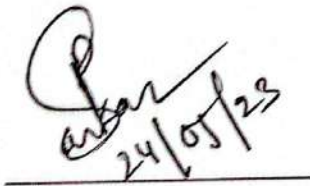
In my opinion, the report in its present form is in partial fulfillment of all the requirements, as specified by the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. program in Computer Science and Engineering in the year 2022-2023.

Guide

BD 29/05/23

Ms. Barnita Das

Department of Computer Science and Engineering

Regent Education and Research Foundation

24/05/23

Examiner(s)

S.hh 24/05/2023

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City Office : 3rd Floor, 60B Chowringhee Road, Kolkata - 700 020, Tel : (+91 33) 2290 0112 / 13 / 14 , Fax No.: 033-2290-0115

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ACKNOWLEDGEMENT

We would like to express my profound gratitude to Mr. Subhankar Ghosh, HOD of the Department of Computer Science and Engineering and also to the teachers of our CSE Department.
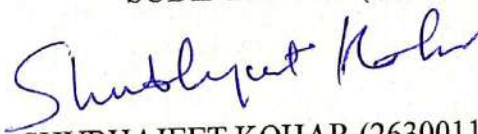
We would like to express my special thanks to our project group guide Mrs. Barnita Das for her time and efforts she provided throughout the year.

Your useful advice and suggestions were really helpful to us during the project's completion. In the aspect, we are eternally grateful to you.
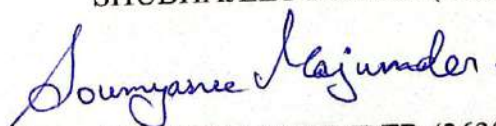
We would like to acknowledge that this entire project work was completed by me and my project group members under the proper guidance of our project guide.

SUDIP BISWAS (26300120044)

SHUBHAJEET KOHAR (26300119047)

SOUMYASREE MAJUMDER (26300119004)

Project Report On-

"Blind Source Separation"

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2020-2023"

Submitted by:

Akash Roy(26300120047)

Ankit Shaw(26300119031)

Niraj Thakur(26300119005)

Jayashree Kuilya(26300120041)

Under the guidance of

Ms. Pragati Ghosh

Assistant Professor

Dept of Computer Science & Engineering

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Barrackpore - 700121, Barrackpore, WB

REGENT EDUCATION AND RESEARCH FOUNDATION

Certificate of approval

This is to certify that this report of B. Tech. Final Year project, entitled **"Blind source separation"** is a record ofbona-fide work, carried out by **Ankit Shaw, Niraj Thakur, Akash Roy, Jayashree Kuilya** under my supervision andguidance.

In myopinion,the reportinitspresent formisinpartial fulfillmentofallthe requirements,asspecifiedby the*RegentEducationand Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it hasattained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original innatureandworthyofincorporationinthepresentversionofthereportforB.Tech.programmeinComputerScienceandEngineeringintheyear2020-2023.

Guide/Supervisor

Ms. Pragati Ghosh

Assistant Professor
Department of Computer Science Engineering
Regent Education And Research Foundation

Examiner(s)

(Computer Science Engineering
Regent Education and Research Foundation)

Head of the Department

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ACKNOWLEDGEMENT

We would like to express our sincere gratitude to our mentor of the department of Computer Science and Engineering, whose role as project guide was invaluable for the project. We are extremely thankful for the keen interest he / she took in advising us, for the books and reference materials provided for the moral support extended to us.

Last but not the least we convey our gratitude to all the teachers for providing us the technical skill that will always remain as our asset and to all non-teaching staffs for the gracious hospitality they offered us. Thanking you.

Date:24th May, 2023

Akash Roy(26300120047)

– Akash Roy

Ankit Shaw(26300119031)

– Ankit Shaw

Niraj Thakur(26300119005)

– Niraj Thakur.

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– Jayashree Kuilya

Project Report On

Location Finder

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

Anushree Saha (26300119006)
Shivam Mishra (26300119025)
Manish Pathak (26300119026)

Under the guidance of

Mr. Atanu Kumar Das
Assistant Professor
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Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled **"Location Finder"** is a record of bona-fide work, carried out by **Anushree Saha, Manish Pathak, Shivam Mishra** 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

Mr. Atanu Kumar Das

Department of Computer Science and Engineering
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ACKNOWLEDGEMENT

I would like to express my sincere gratitude to the following individuals and organizations for their support and assistance in completing this project.

Firstly, I would like to thank my project guide, Mr. Atanu Kumar Das Sir, for their valuable guidance, support, and encouragement throughout the course of this project. Their expertise and insights have been invaluable in helping me navigate through the challenges and complexities of the project.

I would also like to thank our H.O.D, Mr. Subhankar Ghosh Sir, for their valuable support and guidance throughout the development of this project.

I am grateful to the faculty members of CSE department for providing me with the opportunity to undertake this project and for their support and encouragement.

Finally, I would like to thank my family and friends for their unwavering support, encouragement, and understanding during this project. Their love and support have been a constant source of motivation and inspiration for me.

Thank you all for your support and contributions to this project.

Anushree Saha
University Roll No and Registration No
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Shivam Mishra
University Roll No and Registration No
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Manish Pathak
University Roll No and Registration No
(26300119026)   (017794)

Project Report On

Emotion Detection in Real-Time using Convolutional Neural Network

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

Ariyan Munshi (Group Leader) (26300119034)
Sujan Maji (26300119008)
Tinku Maji (26300119007)
Subhramoy Sarkar (26300119063)

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Department of Computer Science and Engineering
Regent Education and Research Foundation
(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal)

Barrackpore - 700121, Barrackpore, WB

<u>Certificate of Approval</u>

This is to certify that this report of B. Tech. The final Year project, entitled **"Emotion Detection in Real-Time using Convolutional Neural Network"** is a record of bonafide work, carried out by Ariyan Munshi, Sujan Maji, Tinku Maji, Subhramoy Sarkar 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. It has attained the standard necessary for submission. To the best of my knowledge, the results embodied in this report are original in nature and worthy of incorporation in the present version of the report for the B.Tech. program in Computer Science and Engineering in the year 2022-2023.

Guide

I. Dawn 24/05/2023

Mr. Indrajit Dawn

Department of Computer Science and Engineering

Regent Education and Research Foundation

24/05/23

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S. Ghosh 24/05/2023

Mr. Subhankar Ghosh

Head of the Department

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ACKNOWLEDGEMENT

Project Report On

AI IMAGE GENERATION TOOL

"A dissertation submitted in partial fulfilment of the requirements of

Bachelor of Technology Degree in Computer Science and Engineering of

the Maulana Abul Kalam Azad University of Technology for the year 2022-2023 "

Submitted by

NAME	ROLL NO
Rounak Paul	26300119011
Ankit Kumar Ghosh	26300119019
Debasmita Chanda	26300120050
Sounak Raj Pani	26300119009
Iffat Nigar	26300119013

Under the guidance of

Mrs. Paramita Sarkar

Assistant Professor

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Department of Computer Science and Engineering

Regent Education and Research Foundation

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

Barrackpore - 700121, Barrackpore, WB

REGENT EDUCATION & RESEARCH FOUNDATION
GROUP OF INSTITUTIONS

CERTIFICATE OF APPROVAL

This is to certify that this report of B. Tech. Final Year project, entitled "**AI Image Generation Tool**" is a record of bona-fide work, carried out by **Ankit Kumar Ghosh, Rounak Paul, Sounak Raj Pani, Debasmita Chanda, and Iffat Nigar** 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 the **Regent Education and Research Foundation** and as per regulations of the **Maulana Abul Kalam Azad University of Technology**. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B.Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

Mrs. Paramita Sarkar

Department of Computer Science and Engineering

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Examiner(s)

Head of the Department

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Acknowledgment

We would like to express my sincere gratitude to mentor Mrs. Paramita Sarkar mam who has supported and contributed to the development of this AI Image Generation Tool. We would also like to thank our HOD sir Mr. Subhankar Ghosh. We extend my heartfelt thanks to the developers, designers, testers and stakeholders who have dedicated their time, expertise and valuable feedback throughout the project. Your contributions have been invaluable in bringing this tool to fruition. Thank you for your unwavering support and collaboration.

ROUNAK PAUL

University Roll No 26300119011

Registration No 022876 OF 2019-20

ANKIT KUMAR GHOSH

University Roll No 26300119019

Registration No 019491 OF 2019-20

SOUNAK RAJ PANI

University Roll No 26300119009

Registration No 022853 OF 2019-20

DEBASMITA CHANDA

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IFFAT NIGAR

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Registration No 021772 OF 2019-20

Project Report On

" INFINITY "

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

Ashish Mishra (26300119064)
Ritwik Pal (26300119039)
Ravi Anshuman (26300119022)
Soumyadip Roy (26300119010)

Under the guidance of
MR. SUBHANKAR GHOSH
Designation
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Department of Computer Science and Engineering
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i

Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled **"Infinity"** is a record of bona-fide work, carried out by **Ritwik Pal, Ashish Mishra, Soumyadip Roy , Ravi Anshuman** 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard necessary for submission. To the best of my knowledge, the results embodied in this report are original in nature and worthy of incorporation in the present version of the report for B. Tech. program in Computer Science and Engineering in the year 2019-2020.

Guide / Supervisor

Mr. Subhankar Ghosh

Assistant Professor

Department of Computer Science and Engineering
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Examiner(s)

Head of the Department
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Regent Education and Research Foundation
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CSE - DEPARTMENT
REGENT EDUCATION &
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COLLEGE CODE - 263

ACKNOWLEDGEMENT

I would like to express my satisfaction that the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, and whose constant guidance and encouragement crown all efforts with success.

We are grateful to our project guide **Mr. SUBHANKAR GHOSH** for the guidance, inspiration, and constructive suggestions that helped us in the preparation of this project.

We also thank all our faculties who have helped in the successful completion of the project.

We also thank our colleagues who have helped in the successful completion of the project.
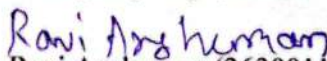
Mr. Ritwik Pal (26300119039)

Mr. Ashish Mishra (26300119064)

Mr. Soumyadip Roy (26300119010)

Mr. Ravi Anshuman (26300119022)

Project Report On

MovieRent

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

Name		Roll No.
1. SAYAN MONDAL	-	26300119023
2. SAYAK RANA	-	26300119027
3. ARGHYA KHAN	-	26300119035
4. PRATISHRUTI DUTTA	-	26300119012

Under the guidance of

Shri AMARTYA GHOSH

Department of Computer Science and Engineering

Regent Education and Research Foundation

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

Barrackpore - 700121, Barrackpore, WB

Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "MovieRent" is a record of bona-fide work, carried out by Sayan Mondal, Sayak Rana, Arghya Khan, Pratisruti Dutta 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 the Regent Education and Research Foundation and as per regulations of the Maulana Abul Kalam Azad University of Technology. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. program in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

Mr. Amartya Ghosh
Department of Computer Science and Engineering
Regent Education and Research Foundation

Examiner(s)
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Regent Education and Research Foundation

Head of the Department

H.O.D
CSE - DEPARTMENT
REGENT EDUCATION &
RESEARCH FOUNDATION
COLLEGE CODE - 263

ii

ACKNOWLEDGEMENT

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Project Report On

College Management System

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

Raktim Pramanik(26300119037)
Sangita Dey(26300119029)
Samprati Biswas(26300119062)

Under the guidance of
Mr. AMARTYA GHOSH
Assistant Professor
Dept of Computer Science & Engineering
Regent Education and Research Foundation

Department of Computer Science and Engineering
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Barrackpore - 700121, Barrackpore, WB

i

Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "College Management System" is a record of bona-fide work, carried out by **Raktim Pramanik, Sangita Dey, Samprati Biswas** 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

Aghosh 29/05/23

Mr. AMARTYA GHOSH

Department of Computer Science and Engineering
Regent Education and Research Foundation

BP 24/05/23

Examiner(s)

S.Uh 24/05/2023

Head of the Department
Computer Science and Engineering
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S.Ghosh.

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Regd. Office : 88, Chowringhee Road, Kolkata - 700 020, E-mail : rerfkolkata@gmail.com, Website : www.rerf.co.in
City Office : 3rd Floor, 60B Chowringhee Road, Kolkata - 700 020, Tel : (+91 33) 2290 0112 / 13 / 14 , Fax No.: 033-2290-0115

ii

ACKNOWLEDGEMENT

It gives us immense pleasure to announce the partial completion of our project on "**College Management System**" and we are pleased to acknowledge our indebtedness to all the persons who directly, or indirectly contributed in the development of this work and who influenced our thinking, behavior and acts during the course of study. We are thankful to our **Departmental Coordinator Professor Mr. Amartya Ghosh** who granted all the facilities of the college to us for the fulfilment of the project.

We are thankful and express our sincere gratitude to our project guide **Mr. Amartya Ghosh** who gave his/her valuable time to us for the sake of our project. He helped us each and every aspect of our project both academically and mentally.

Finally, the team expressed their gratitude to our respected **H.O.D Mr. Subhankar Ghosh & Principal-In-Charge Rajorshi Bandyopadhyay**. Without his support our project would not have seen the light of success.

Mr.Raktim Pramanik
26300119037 and 040521

Ms.Sangita Dey
26300119029 and 017637

Mr.Samprati Biswas
26300119062 and 032981

Project Report On

Fake News Detection with Python

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

ROHIT KARMAKAR(26300119016)
ANKUSH CHOWDHURY(26300119021)
SOUVIK KUNDU(26300119032)

Under the guidance of
Shri. INDRAJIT DAWN

Dept of Computer Science & Engineering
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Department of Computer Science and Engineering
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Barrackpore - 700121, Barrackpore, WB

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Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "Fake news detection with python" is a record of bona-fide work, carried out by Rohit Karmakar, Ankush Chowdhury, Souvik Kundu 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 the Regent Education and Research Foundation and as per regulations of the Maulana Abul Kalam Azad University of Technology. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

24/05/23

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ACKNOWLEDGEMENT

I would like to express our special thanks of gratitude to our guide Mr. Indrajit Dawn sir and the team members for their able co-operation and effort in our project.

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3

Project Report On

Weather Application Development

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

Submitted by

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Joy Biswas(26300119020)
Mahuya Goala(26300120054)
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Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "Weather Application Development" is a record of bona-fide work, carried out by **Tanusree Mondal, Joy Biswas, Mahuya Goala, Subhankar Bhattacharjee** 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

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ACKNOWLEDGEMENT

It gives us immense pleasure to announce the partial completion of our project on "**Weather Application Development**" and we are pleased to acknowledge our indebtedness to all the persons who directly or indirectly contributed in the development of this work and who influenced our thinking, behavior and acts during the course of study. We are thankful to our **Departmental Coordinator Professor Mr. Amartya Ghosh** who granted all the facilities of the college to us for the fulfilment of the project.

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Finally, the team expressed their gratitude to our respected **H.O.D Mr. Subhankar Ghosh & Principal-In-Charge Rajorshi Bandyopadhyay**. Without his support our project would not have seen the light of success.

Ms.Tanusree Mondal   *Tanusree Mondal*
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Project Report On

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

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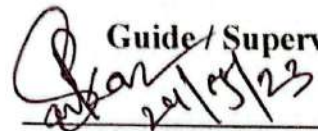Barrackpore - 700121, Barrackpore, WB

Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled **"Furniture E-Commerce Website Using MERN Stack Project"** is a record of bona-fide work, carried out by **Somnath Kar,Rahul Debnath,Tanmay Santra,Sudipta Mondal** under my supervision and guidance.
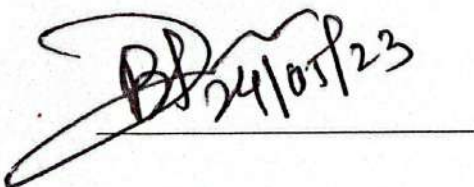
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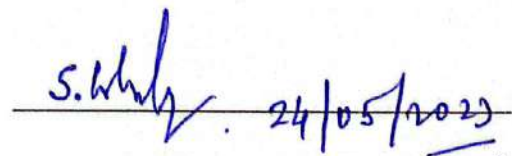
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ACKNOWLEDGEMENT

On the very outset of this report, we would like to extend our sincere and heartfelt obligation towards all the personages who have helped us in this endeavor.

We would also like to take this opportunity to express our profound gratitude and deep regards to our project guide **Ms. Paramita Sarkar** for her exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by him time to time shall carry us a long way in the journey of life on which we are about to embark.

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We are obliged to the staff of Computer Science Department, Regent Education & Research Foundation, for the valuable information provided by them in their respective fields. We are grateful for their cooperation during the period of our project.

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On

Algorithm Visualization

"A dissertation submitted in partial fulfilment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2019-2023"

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Suchismita Pal (26300120034)

Souvik Das (26300120046)

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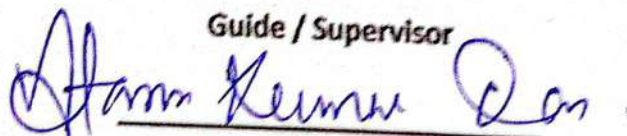Regent Education and Research Foundation

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Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "Algorithm Visualization" is a record of bona-fide work, carried out by Samir Chandra Pramanik, Biswajit Das, Suchismita Pal, Souvik Das, Kazi Moksud Hossain 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2019-2023.

Guide / Supervisor

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Project Report On

A travel-based App
(TRILIX)

"A dissertation submitted in partial fulfillment of the requirements of Bachelor of Technology Degree in Computer Science and Engineering of the Maulana Abul Kalam Azad University of Technology for the year 2022-2023"

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Certificate of Approval

This is to certify that this report of B. Tech. Final Year project, entitled "**A travel-based App**" is a record of bona-fide work, carried out by **SK MD ASHIF, Ritwik Chatterjee, Pamela Bera, Asima Nuri 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 the *Regent Education and Research Foundation* and as per regulations of the *Maulana Abul Kalam Azad University of Technology*. In fact, it has attained the standard, necessary for submission. To the best of my knowledge, the results embodied in this report, are original in nature and worthy of incorporation in the present version of the report for B. Tech. programme in Computer Science and Engineering in the year 2022-2023.

Guide / Supervisor

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