

AI BASED STREAMING ANALYTICS TOOLKIT FOR VIDEO PROCESSING IN ITS

A Project Submitted to Madurai Kamaraj University in partial fulfillment of the
requirements for the award of degree of

M.Sc. (INFORMATION TECHNOLOGY)

Submitted By

2021MSIT02 - M.BHUVANESHWARI

Under The Guidance Of

Mrs I.Razul Beevi,MCA,SET,

Assistant Professor

Department Of Information Technology



FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with 'A++' Grade by NAAC (4th Cycle)

Maryland, Madurai-625018

APRIL- 2023

DEPARTMENT OF INFORMATION TECHNOLOGY

BONAFIDE CERTIFICATE

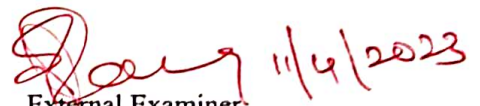
This is to certify that the Project Report entitled “AI based streaming analytics toolkit for video processing in ITS.” is the bonafide record work done by **M.BHUVANESHWARI (2021MSIT02)** in partial fulfillment for the award of the degree **M.Sc. (INFORMATION TECHNOLOGY)**, Fatima College, Madurai.

TO WHOMSOEVER IT MAY CONCERN

Submitted for the viva-voce Examination held on 11-04-2023


Internal Examiner 11/4/23

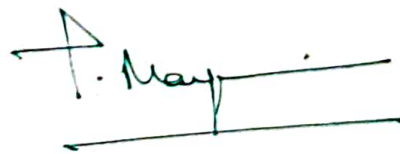

Head of the Department


External Examiner 11/4/2023

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that Ms. BHUVANESHWARI M (REG.NO 2021MSIT02), Pursuing final year MSC[IT], FATIMA COLLEGE,MARY LAND,MADURAI has been selected to undergo her project work "AI BASED STREAMING ANALYTICS TOOLKIT FOR VIDEO PROCESSING IN ITS (Intelligent Transport System)" using Deep Stream at COS AI , Madurai from Dec 2022.

With Best Wishes,



(Dr.T.Mayilvahanan)
Managing Director - COS AI

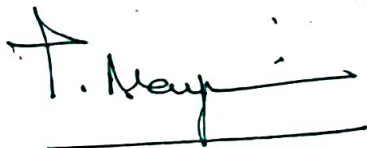


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. BHUVANESHWARI M (REG.NO 2021MSIT02)**, a student of **MSc[IT],Final year, Fatima college (Autonomous), Madurai,Tamil Nadu** has successfully completed her major project , duration from Dec 2022 to Mar 2023 entitled **“AI BASED STREAMING ANALYTICS TOOLKIT FOR VIDEO PROCESSING IN ITS (Intelligent Transport System) USING DEEP STREAM ”** at **COS AI Madurai**. During this period of her major project with us, she was punctual and inquisitive.

We wish her every success in life.

COS AI – Madurai.



(Dr.T.Mayilvahanan)

Authorised Signatory



DECLARATION

I hereby declare that the work entitled "AI based streaming analytics toolkit for video processing in ITS." is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the degree of Master of Science during the academic year 2022-2023.

I declare that this dissertation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: **MADURAI**

Date: **11 - 04 - 2023**

M. Bhuvaneshwari
Signature

M.Bhuvaneshwari

Edge-AI-Based Automated Number Plate Recognition System Using Deep Learning

A Project Submitted to Madurai Kamaraj University in partial fulfillment of
the requirements for the award of degree of

M.Sc. (INFORMATION TECHNOLOGY)

Submitted By

2021MSIT03 – R.JEYA BRINDHA

Under The Guidance Of

Mrs. I. Razul Beevi, MCA,SET,

Assistant professor

Department Of Information Technology



FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with 'A++' Grade by NAAC (4th Cycle)

Maryland, Madurai-625018

APRIL - 2023

DEPARTMENT OF INFORMATION TECHNOLOGY

BONAFIDE CERTIFICATE

This is to certify that the Summer Internship Report entitled “ Edge-AI-based automated number plate recognition using deep learning.” is the bonafide record work done by **R.JEYA BRINDHA (2021MSIT03)** in partial fulfillment for the award of the degree M.Sc. (INFORMATION TECHNOLOGY), Fatima College, Madurai.

Submitted for the viva-voce Examination held on 11-04-2023


Internal Examiner


Head of the Department

 11/4/2023
External Examiner

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that Ms. JEYA BRINDHA R (REG.NO 2021MSIT03), Pursuing final year MSC[IT], FATIMA COLLEGE, MARY LAND, MADURAI has been selected to undergo her project work "AI-BASED REAL-TIME AUTOMATED NUMBER PLATE RECOGNITION SYSTEM" using Deep Learning at COS AI, Madurai from Dec 2022.

With Best Wishes,



(Dr.T.Mayilvahanan)
Managing Director - COS AI



TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. JEYA BRINDHA R (REG.NO 2021MSIT03)**, a student of MSc[IT], Final year, Fatima college (Autonomous), Madurai, Tamil Nadu has successfully completed her major project, duration from Dec 2022 to Mar 2023 entitled **"AI-BASED REAL-TIME AUTOMATED NUMBER PLATE RECOGNITION SYSTEM USING DEEP LEARNING"** at COS AI Madurai. During this period of her major project with us, she was punctual and inquisitive.

We wish her every success in life.

COS AI – Madurai.



(Dr.T.Mayilvahanan)

Authorised Signatory



DECLARATION

I hereby declare that the summer internship work entitled **“Edge-AI- based automated number plate recognition system using deep learning.”** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the degree of Master of Science during the academic year 2022-2023.

I declare that this dissertation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: **MADURAI**

Date: **11-04-2023**

R. Jeya Brindha

Signature
(R.Jeya Brindha)

AI BASED AUTOMATED PARKING MANAGEMENT SYSTEM FOR MULTIPLEX MALL

Submitted in partial fulfillment of the requirements for the award of

Degree of

M.Sc. (INFORMATION TECHNOLOGY)

Of Madurai Kamaraj University

Submitted By

2021MSIT04 - A.KRISHNA VENI

Under The Guidance Of

Mrs I.RAZUL BEEVI, MCA, SET,

Assistant Professor of Information Technology



DEPARTMENT OF INFORMATION TECHNOLOGY

FATIMA COLLEGE (AUTONOMOUS)

MADURAI

APRIL 2023

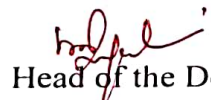
DEPARTMENT OF INFORMATION TECHNOLOGY

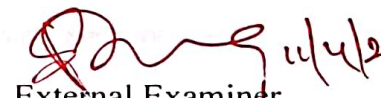
BONAFIDE CERTIFICATE

This is to certify that the Project Report entitled "AI BASED AUTOMATED PARKING MANAGEMENT SYSTEM FOR MULTIPLEX MALL" is the bonafide record work done by, A.KRISHNAVENI (2021MSIT04) in partial fulfillment for the award of the degree M.Sc. (INFORMATION TECHNOLOGY), Fatima College, and Madurai.

Submitted for the viva-voce Examination held on 11-04-2023


Internal Examiner 11/4/23

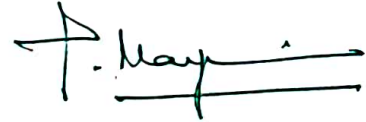

Head of the Department


External Examiner 11/4/2023

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that Ms. A.KRISHNAVENI (REG.NO 2021MSIT04), Pursuing final year MSC[IT], FATIMA COLLEGE, MARY LAND, MADURAI has been selected to undergo her project work "AI BASED AUTOMATED PARKING MANAGEMENT SYSTEM FOR MULTIPLEX MALL" using Django Framework at COS AI , Madurai from Dec 2022.

With Best Wishes,



(Dr.T.Mayilvahanan)
Managing Director - COS AI

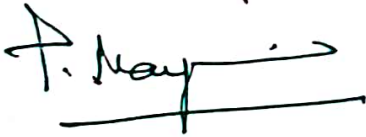


TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. A.KRISHNAVENI (REG.NO 2021MSIT04), a student of MSc[IT],Final year, Fatima college (Autonomous), Madurai,Tamil Nadu has successfully completed her major project , duration from Dec 2022 to Mar 2023 entitled "AI BASED AUTOMATED PARKING MANAGEMENT SYSTEM FOR MULTIPLEX MALL USING DJANGO FRAMEWORK" at COS AI Madurai. During this period of her major project with us, she was punctual and inquisitive.

We wish her every success in life.

COS AI – Madurai.



(Dr.T.Mayilvahanan)

Authorised Signatory



DECLARATION

I hereby declare that the project work entitled "AI BASED AUTOMATED PARKING MANAGEMENT SYSTEM FOR MULTIPLEX MALL" is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the degree of Master of Science during the academic year 2022-2023.

I declare that this dissertation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 11-04-2023



Signature

(A.Krishnaveni)

IMAGE ANNOTATION TOOL USING DEEP LEARNING

A Project Submitted to Madurai Kamaraj University in partial fulfillment of the
requirements for the award of degree of

M.Sc. (INFORMATION TECHNOLOGY)

Submitted By

2021MSIT05 - S.PRIYANKA

Under The Guidance Of

Mrs.I.Razul Beevi MCA,SET,

Assistant Professor

Department Of Information Technology



FATIMA COLLEGE (AUTONOMOUS)

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APRIL – 2023

DEPARTMENT OF INFORMATION TECHNOLOGY

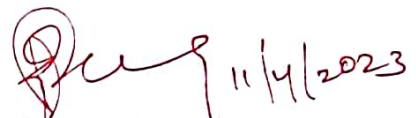
BONAFIDE CERTIFICATE

This is to certify that the Project Report entitled "IMAGE ANNOTATION TOOL USING DEEP LEARNING " is the bonafide record work done by, S.PRIYANKA (2021MSIT05) in partial fulfillment for the award of the degree M.Sc (INFORMATION TECHNOLOGY), Fatima College, Madurai.

Submitted for the viva-voce Examination held on 11-04-2023


11/4/23
Internal Examiner


Head of the Department


11/4/2023
External Examiner

Mayilvahanan

(B.Tech), A.I.I.Arch., Ph.D (Transport)
Chairman & Managing Director

TO WHOMSOEVER IT MAY CONCERN

This is to confirm that Ms. S.PRIYANKA (REG.NO 2021MSIT05), Pursuing final year MSC[IT], FATIMA COLLEGE, MARY LAND, MADURAI has been selected to undergo her project work "IMAGE ANNOTATION TOOL" using Deep Learning at COS AI, Madurai from Dec 2022.

With Best Wishes,



(Dr.T.Mayilvahanan)
Managing Director - COS AI

Mayilvahanan

(B.E., A.I.I.Arch., Ph.D (Transport))
Chairman & Managing Director



TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.S.PRIYANKA (REG.NO 2021MSIT05)** a student of MSc[IT],Final year, Fatima college (Autonomous), Madurai,Tamil Nadu has successfully completed her major project , duration from Dec 2022 to Mar 2023 entitled **"IMAGE ANNOTATION TOOL USING DEEP LEARNING"** at **COS AI Madurai**. During this period of her major project with us, she was punctual and inquisitive.

We wish her every success in life.

COS AI – Madurai.



(Dr.T.Mayilvahanan)

Authorised Signatory



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Branch Office : Bangalore | Chennai

DECLARATION

I hereby declare that the major project work entitled “**IMAGE ANNOTATION TOOL USING DEEP LEARNING**” is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the degree of Master of Science during the academic year 2022-2023.

I declare that this dissertation or any part there of has not been submitted for getting any degree or diploma from any university or college.

Place: **MADURAI**

Date: **11-04-2023**

S. Priyanka .
Signature

(S.Priyanka)