



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:05-07-2021

Department	COMPUTER APPLICATIONS	Application No.	202110131
Area of Research	MACHINE LEARNING AND IMAGE PROCESSING	Research Mode	PART TIME

Name :P.MUTHULAKSHMI
Date of Birth / Age :03-07-1985 / 36 Years
Gender :FEMALE
Category :OBC
e-Mail ID :muthumeenamca@gmail.com
Mobile :7010813552



Father's/Husband's Name	J.ANANDAN	Father's/Husband's Occupation	BUSINESS
Family Income	4,20,000	Residential Type	RURAL
Birth Place	MADURAI	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	262575970670	PAN No.	DEBPM7287H
Physically Challenged	NO	Type of Disability	-
Address for Communication: 285A1 SN PURAM ROAD, THIRUTHANGAL SIVAKASI VIRUDHUNAGAR DISTRICT TAMIL NADU INDIA Pin-626130		Permenant Address: 285A1 SN PURAM ROAD, THIRUTHANGAL SIVAKASI VIRUDHUNAGAR DISTRICT TAMIL NADU INDIA Pin-626130	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
B.SC	PHYSICS	SFR COLLEGE FOR WOMEN	2006	82.7%	FIRST CLASS	REGULAR
MCA	COMPUTER APPLICATIONS	ARULMIGU KALASALINGAM COLLEGE OF ENGINEERING	2009	75%	FIRST CLASS WITH DISTINCTION	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
SFR COLLEGE FOR WOMEN	ASSISTANT PROFESSOR	2010-06-01	2021-07-05	LECTURING

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202110131_210710003711	VTMB0102794522	10-07-2021	600	SUCCESS

OPTIMAL SOLUTION FOR FIRE ACCIDENT AT FIREWORKS INDUSTRY USING CONVOLUTIONAL NEURAL NETWORKS

P.Muthulakshmi

Now a days, a fire accident triggered by an explosion at a firecracker factory increasing rapidly. My research focuses on finding smart solution to avoid this major fire accident. This includes detect the fire as early as possible using deep learning models, alarming users and a self-directed timely response to suppress the fire there by reduce the ecological, social, and economic damage. Real time fire detection framework is designed using light weight YOLO v3 Convolutional Neural Network (CNN) algorithm. It gives more than 83.7% accuracy in fire detection which is much higher than other proposed algorithms. The dataset is generated using real time video capturing through CCTV surveillance camera. Then the Image recognition algorithms based on convolutional neural networks (CNNs) can automatically learn and extract complex image features effectively to detect the fire or smoke in real time capturing videos. Once it is detected then the system will strongly alert the user as well as autonomous fire fighter are used to suppress fire and save the life of many employees worked in firecracker units across the country.

SR 10045077



அறிவியற் புலம்
FACULTY OF SCIENCE

மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப்பேரவை
முத்து லட்சுமி. பர்.

இயற்பியல் பிரிவில் அறிவியல் இளையர் பட்டம்

குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர் ஏப்ரல் 2006 இல் நடைபெற்ற
ரில் சான்றளித்தவாறு, முதல் வகுப்பு

இச்சான்றிதழ் பெறுதற்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக இலச்சினையுடன் இது வழங்கப்படுகின்றது.

The Senate of the MADURAI KAMARAJ UNIVERSITY

makes known that MUTHU LAKSHMI P has been admitted to the

DEGREE OF BACHELOR OF SCIENCE IN PHYSICS

aving been certified by duly appointed Examiners to be qualified to receive the same, and having been placed by
the FIRST CLASS at the Examination held in APRIL 2006

r No. : A3115362

Centre Code : 314

Given under the seal of the University



S. M. L. S.

சுணைவேந்தர்



ANNA UNIVERSITY
CHENNAI
M.C.A.DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF MARKS

Folio No. F697992

M095156061572P

NAME OF THE CANDIDATE		MUTHULAKSHMI P			REGISTER NO.	95106621032
COLLEGE OF STUDY		951: Arulmigu Kalasalingam College of Engineering			MONTH & YEAR OF LAST APPEARANCE	June 2009
PROGRAMME & SPECIALIZATION		M.C.A.			REGULATIONS	2005
SEM.	SUBJECT CODE	SUBJECT TITLE	MAX	MIN	MARKS SECURED	MONTH & YEAR OF PASSING
01	MC1601	Computer Organization	100	50	057	NOV 2006
01	MC1602	Problem Solving and Programming	100	50	067	NOV 2006
01	MC1603	Business Processes	100	50	061	NOV 2006
01	MC1604	Data Structures	100	50	062	NOV 2006
01	MC1605	Accounting and Financial Management	100	50	066	NOV 2006
01	MC1606	Data Structures Lab	100	50	082	NOV 2006
01	MC1607	Programming Lab	100	50	098	NOV 2006
02	MC1651	Mathematical Foundations of Computer Science	100	50	060	JUN 2007
02	MC1652	Object Oriented Programming	100	50	074	JUN 2007
02	MC1653	Design and Analysis of Algorithms	100	50	068	JUN 2007
02	MC1654	Database Management Systems	100	50	073	JUN 2007
02	MC1655	Operating Systems	100	50	070	JUN 2007
02	MC1656	Object Oriented Programming Lab	100	50	100	JUN 2007
02	MC1657	DBMS Lab	100	50	088	JUN 2007
02	MC1658	Algorithms Lab	100	50	089	JUN 2007
03	MC1701	Computer Networks	100	50	066	NOV 2007
03	MC1702	Microprocessors and its Applications	100	50	077	NOV 2007
03	MC1703	Software Engineering	100	50	066	NOV 2007
03	MC1704	Computer Graphics and Multimedia Systems	100	50	062	NOV 2007
03	MC1705	Internet Programming	100	50	065	NOV 2007
03	MC1706	Graphics and Multimedia Lab	100	50	097	NOV 2007
03	MC1707	Microprocessor Lab	100	50	097	NOV 2007
03	MC1708	Internet Programming Lab	100	50	082	NOV 2007
04	MC1751	UNIX and Network Programming	100	50	056	JUN 2008
04	MC1752	Resource Management Techniques	100	50	059	JUN 2008
04	MC1753	Object Oriented Analysis and Design	100	50	069	JUN 2008
04	MC1754	Middle-Ware Technologies	100	50	066	JUN 2008
04	MC1624	Web Graphics	100	50	057	JUN 2008
04	MC1755	Visual Programming Lab	100	50	096	JUN 2008
04	MC1756	Unix and Network Programming Lab	100	50	080	JUN 2008
04	MC1757	Middleware Lab	100	50	088	JUN 2008
05	MC1801	XML and Web Services	100	50	075	NOV 2008
05	MC1802	Software Project Management	100	50	074	NOV 2008
05	MC1625	Human Resource Management Techniques	100	50	077	NOV 2008
05	MC1630	Data Warehousing and Data Mining	100	50	059	NOV 2008
05	MC1635	Enterprise Resource Planning	100	50	078	NOV 2008
05	MC1803	XML and Web Services Lab	100	50	086	NOV 2008
05	MC1804	Software Development Lab	100	50	088	NOV 2008
06	MC1851	Project Work	400	200	331	JUN 2009

End of Statement

Classification : FIRST CLASS WITH DISTINCTION

Total Marks : 3166 / 4200

Percentage (rounded to nearest integer) : 75



Medium of Instruction : ENGLISH

V. Zy Me



MADURAI KAMARAJ UNIVERSITY

B Sc PHYSICS (SEMESTER)

STATEMENT OF MARKS

SSG 30042027

NAME OF THE CANDIDATE		REGISTER NO.	CENTRE NO.	COLLEGE OF STUDY		EXAM M & YR	DATE OF PUBLICATION								
MUTHU LAKSHMI P		A3115362	314	S.F.R COLLEGE FOR WOMEN - SIVAKASI		APR 2006	09-JUN-2006								
SUB CODE	SUBJECT DESCRIPTION	MAX MARKS			SUB CODE	SUBJECT DESCRIPTION	MARKS OBTAINED								
		E	T	I			E	T	I						
1A1	TAMIL PAPER - I	--	100	100	06060 P N03	PPT	MAJOR PRACTICAL IV (ELECTRONICS)	--	100	100	--	099	099	P	A06
1A2	TAMIL PAPER - II	--	100	100	06060 P A04	PPX	PROJECT/AREA STUDY / FIELD WORK	--	100	100	--	096	096	P	A06
1A3	TAMIL PAPER - III	--	100	100	05051 P N04	PXA	MECHANICS, PROPERTIES OF MATTER, SOUND & THERMAL PHYSICS	--	100	100	--	070	070	P	N03
1A4	TAMIL PAPER - IV	--	100	100	05057 P A05	PXB	ELECTRICITY & ELECTROMAGNETISM	--	100	100	--	077	077	P	A04
3A1	ENGLISH PAPER - I	--	100	100	07078 P N03	PXC	COMPUTER PROGRAMMING IN C	--	100	100	--	068	068	P	N04
3A2	ENGLISH PAPER - II	--	100	100	07077 P A04	PXD	OPTICS & SPECTROSCOPY	--	100	100	--	077	077	P	A05
3A3	ENGLISH PAPER - III	--	100	100	07070 P N04	PXE	ELEMENTS OF THEORETICAL PHYSICS	--	100	100	--	076	076	P	N05
3A4	ENGLISH PAPER - IV	--	100	100	06063 P A05	PXF	ELECTRONICS-I	--	100	100	--	076	076	P	N05
5C1	INORGANIC, ORGANIC AND PHYSICAL CHEMISTRY	--	50	50	04041 P N03	PXG	ATOMIC & NUCLEAR PHYSICS	--	100	100	--	086	086	P	A06
5C2	INORGANIC AND ORGANIC CHEMISTRY	--	50	50	03032 P A04	PXH	ELECTRONICS-II	--	100	100	--	081	081	P	A06
5C3	INORGANIC AND PHYSICAL CHEMISTRY	--	50	50	04042 P N04	BKL	PART IV - GENERAL KNOWLEDGE	--	100	100	--	071	071	P	N05
5C4	ORGANIC & PHYSICAL CHEMISTRY	--	50	50	03034 P A05		<<< END OF STATEMENT >>>								
5C0	ANCILLARY CHEMISTRY PRACTICAL-I	--	40	40	03039 P A04										
5C0	ANCILLARY CHEMISTRY PRACTICAL-II	--	60	60	06060 P A05										
ANA	MATHEMATICS PAPER I	--	75	75	06063 P N04										
AMB	MATHEMATICS PAPER II	--	75	75	06050 P A05										
AMC	MATHEMATICS PAPER III	--	75	75	06061 P N05										
AND	MATHEMATICS PAPER IV	--	75	75	06057 P A06										
PP0	MAJOR PRACTICAL I	--	100	100	01090 P A04										
PPR	MAJOR PRACTICAL II	--	100	100	01099 P A05										
PPS	MAJOR PRACTICAL III (NON-ELECTRONICS)	--	100	100	01097 P A06										
CLASS		PART I - SECOND			TOTAL MARKS			PART I - 0288/400							
		PART II - FIRST						PART II - 0288/400							
		PART III - FIRST						PART III - 1571/1900							

PASS PERCENTUM - 35%

P. Muthulakshmi
Signature of the Candidate

Any alteration or overwriting makes this Statement of Marks invalid.

S. Shanmugiah

Dr S SHANMUGIAH
Controller of Examinations

அரசுத் தேர்வுகள் துறை, சென்னை - 600 006
DEPARTMENT OF GOVERNMENT EXAMINATIONS, CHENNAI - 600 006

இடைநிலைக் கல்வி பள்ளி இறுதி வகுப்புச் சான்றிதழ்
SECONDARY SCHOOL LEAVING CERTIFICATE

பத்தாம் வகுப்பு - திருத்தி அமைக்கப் பெற்ற முறை

X STANDARD - REVISED PATTERN

தமிழ்நாடு அரசின் அதிகாரத்திற்கு உட்பட்டு வழங்கப்படுகிறது
ISSUED UNDER THE AUTHORITY OF THE GOVERNMENT OF TAMIL NADU

தேர்வர் P MUTHULAKSHMI

MAR. 2001 இல்

பத்தாம் வகுப்புப் பொதுத் தேர்வு எழுதிக் கீழ்க்காணும் விழுக்காட்டு மதிப்பெண்களைப் பெற்றுள்ளார் என்று சான்றளிக்கப்படுகிறது.

Certified that the above mentioned Candidate appeared for the SSLC Public Examination and obtained the following percentage of marks.

பாடம் SUBJECT	மதிப்பெண் MARKS
மொழி LANGUAGE	88 EIGHT EIGHT
ஆங்கிலம் ENGLISH	86 EIGHT SIX
கணிதம் MATHEMATICS	94 NINE FOUR
அறிவியல் SCIENCE	98 NINE EIGHT
சமூக அறிவியல் SOCIAL SCIENCE	94 NINE FOUR
மொத்தம் TOTAL	460 FOUR SIX ZERO

பிறந்த நாள் / DATE OF BIRTH	பதிவெண் / REGISTER NO.	ம.அ.ப.குறியீட்டெண் & நாள் TMR CODE NO. & DATE
03.07.1985	115691	A106378 18.06.2001

பள்ளியின் பெயர் / SCHOOL

SSNG GIRLS HSS THIRUTHANGAL

பத்தாம் வகுப்புத் தேர்வில் தேர்ச்சி பெற ஒவ்வொரு பாடத்திலும் 100க்குக் குறாம அளவு முப்பத்தைந்து விழுக்காட்டு மதிப்பெண் பெறுதல் வேண்டும். இது பகுதி முறையில் தேர்வு எழுதித் தேர்ச்சி பெறுவதற்கும் பொருந்தும்.

A PASS IN THE SSLC (X STD.) EXAMINATION REQUIRES A MINIMUM OF THIRTY FIVE PERCENT OF MARKS IN EACH ONE OF THE FIVE SUBJECTS. THIS INCLUDES PASSING UNDER THE COMPARTMENTAL SYSTEM ALSO.

P. Muthulakshmi

தேர்வரின் ஒப்பம்
Candidate's Signature



இடைநிலைக் கல்விக் குழுமம், தமிழ்நாடு
SECRETARY,

BOARD OF SECONDARY EDUCATION, TAMILNADU

Admission No. 06MCA31/2006-2007

Serial No. 9957



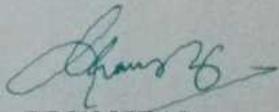
ARULMIGU KALASALINGAM COLLEGE OF ENGINEERING
ANAND NAGAR, KRISHNANKOIL - 626 190.
(An ISO 9001:2000 Certified Institution)
Via-Srivilliputtur, Virudhunagar District, Tamil Nadu.



TRANSFER CERTIFICATE

1. Name of the Pupil	: MUTHULAKSHMI, P.
2. Nationality, Religion, Caste	: INDIAN, HINDU, NADAR (BC)
3. Date of Birth (in words) as entered in the Admission	: 03.07.1985
4. Date of Admission to the College	: 04.09.2006
5. Class in which the pupil was reading at the time of leaving	: FINAL YEAR MCA
6. Course studied by the pupil	: MASTER OF COMPUTER APPLICATIONS
7. Whether qualified for promotion to a higher class	: Refer the Mark Sheet
8. Whether the pupil has paid all the fees due to the institution	: YES
9. Date on which the pupil actually left the institution	: 07.07.2009
10. Date on which application for Transfer Certificate was made on behalf of the pupil by his/her parent or guardian	: 27.07.2009
11. Date of the Transfer Certificate	: 27.07.2009

Date: 27.07.2009


PRINCIPAL
ARULMIGU KALASALINGAM
COLLEGE OF ENGINEERING
ANAND NAGAR
KRISHNANKOIL - 626 190.



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University, Re-accredited with 'A' GRADE by NAAC,
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

SIVAKASI

Mrs. A.Aruna, B.Sc.,
Secretary

Dr.(Mrs.)T.Palaneeswari, M.Com.,M.Phil.,Ph.D.
Principal

Ref.No.:- SFRC/Service Certi./2021-22/1

05.07.2021

SERVICE CERTIFICATE

This is to certify that **Mrs.P.MUTHULAKSHMI, M.C.A.** is working as
Assistant Professor in the Department of Computer Applications (Self-financed)
in this college from 01.06.2010 to till date.

T. Palaneeswari

PRINCIPAL

**The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI**

RB

★ *Enrichment with knowledge* ★ *Empowerment of women* ★

Phone : 04562 - 220389
Fax : 04562 - 226695

E-Mail : sfrc@sfrcollege.edu.in
Website : www.sfrcollege.edu.in

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

P MUTHULAKSHMI

PANDI

03/07/1985

Permanent Account Number

DEBPM7287H

Signature



15082016



India Driving Licence(Tamilnadu)

Form 7

DOI 17/04/2012

D.L.No : TN67U20120001746

Name : MUTHULAKSHMI P

S/D/W of : PANDI M

Address :

71 NEW212, PANDIAN NAGAR 5TH STREET
THIRUTHANGAL,
SIVAKASI-TK

Temp.Addr:

A S J ALAGARSAMY D S, SIVAKASI

D.O.B. : 03/07/1985

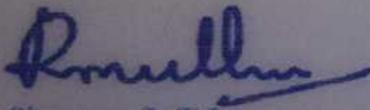
B.G. :



Punishments:

Licensed to drive throughout India, vehicles of the following descriptions
M/CYCL. WOG 17/04/2012 TN67U

Non-Transport Veh. Valid upto **16/04/2032**



Signature/L.T.I
of the Holder



**ABON
20/12**

Asst. Licensing Authority
UNIT OFFICE, SIVAKASI

R.Dis...../9 dt.

BC

சான்றிதழ் எண் :
Certificate No :25426
1540736மாவட்டக் குறியீடு எண் :
District Code

17

வட்டக் குறியீடு எண் :
Taluk Code

07

கிராமக் குறியீடு எண் :
Village Code

013

சாதிச் சான்றிதழ்
COMMUNITY CERTIFICATE

காமராசர் மாவட்டம் சிவகாசி வட்டம்
திருகேளங்கல் கிராமம்/நகரம், திரு/திருமதி / செல்வி/
செல்வன் முத்துவாசுபதி தகப்பனார்/
கணவர் பெயர் பாண்டி இந்து - நாடார்

வகுப்பைச் சார்ந்தவர், அரசு ஆணை எண். 1564, சமூக நலத்துறை நாள்:
30-7-1985 வரிசை எண் 83 படி, பிற்பட்ட பிரிவினைச் சார்ந்தவர்
எனச் சான்றளிக்கப்படுகிறது.

This is to certify that MUTHULAKSHMI Son/ Daughter
of Thiru PANDI of T.HIRUTHAN-
கால் Village/ Town, சிவகாசி Taluk
KAMARAJAR District of the State of Tamil Nadu belongs to
HINDU-NADAR Community, which is recognised as
a Backward Class as per Government Order (Manuscript series) No. 1564, Social
Welfare Department, dated 30th July 1985 vide Serial No. 83.

2. திரு/திருமதி / செல்வன் / செல்வி முத்து வாசுபதி
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில் காமராசர்
மாவட்டத்தில் சிவகாசி வட்டத்தில் திருகேளங்கல்
கிராமத்தில் / நகரத்தில் வசித்து வருகிறார்கள் எனச் சான்றளிக்கப்படுகிறது.

2. It is certified that Thiru/Tmt/Selvan/Selvi MUTHULAKSHMI and
his/her family ordinarily reside(s) at T.HIRUTHAN Village/Town
சிவகாசி Taluk KAMARAJAR District of Tamil Nadu.

கையொப்பம் :
Signature :நாள் :
Date :இதழி எழுத்துக்களில் பெயர் :
Name in Capital Lettersபதவிப் பெயர் :
Designation :

K. ARUNACHALAM
ZONAL DEPUTY TAHSILDAR
SIVAKASI.

30/7/86

ANNEXURE-I

CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED

Certified that Mr./Ms./Mrs. P Muthulakshmi is
employed as Assistant Professor (Designation) in the
Computer Applications (Department/Division Name)
of SFR College for women, Sivakasi
(Institution/Industry Name).

We have no objection in forwarding his/her application for the Ph.D. Research Programme.

FOR FULL TIME:

The candidate will be sanctioned leave for the duration of the research programme and will be relieved from duty from _____ to _____ to undertake the full time research work in the University.

FOR PART TIME:

The candidate will be permitted to undertake part time study in the University/College and will be allowed to be present for discussions with the supervisor, attending course works, conduct of experiments and participations in seminars and related presentations. Further the required facilities at our organization will also be provided to the candidate for doing research.

Date: 25.6.2021

T. Palaneswari
Signature of the Head of Organization with office seal

Dr. T. Palaneswari
PRINCIPAL,
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.