



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:21-12-2020

Department	COMPUTER APPLICATIONS	Application No.	202020148
Area of Research	DIAGNOSIS OF COVID-19 USING MACHINE LEARNING	Research Mode	PART TIME

Name :MIRIAMTHOMAS
Date of Birth / Age :28-09-1978 / 42 Years
Gender :FEMALE
Category :OC
e-Mail ID :miriamthomas1@gmail.com
Mobile :9446214928



Father's/Husband's Name	AGESH MARKOSE	Father's/Husband's Occupation	LECTURER
Family Income	200000	Residential Type	URBAN
Birth Place	KOTTAYAM,KERALA	Mother Tongue	MALAYALAM
Religion	CHRISTIAN	Martial Status	MARRIED
Aadhaar No.	728986694128	PAN No.	AKQPT3663G
Physically Challenged	NO	Type of Disability	-
Address for Communication: BETHEL,DIVYANAGAR1 CHEMMANMUKKU,PATTATHANAM KOLLAM KOLLAM DISTRICT KERALA INDIA Pin-691021		Permenant Address: BETHEL,DIVYANAGAR1 CHEMMANMUKKU,PATTATHANAM KOLLAM KOLLAM DISTRICT KERALA INDIA Pin-691021	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
BSC	PHYSICS	UNIVERSITY OF KERALA	1999	86%	DISTINCTION	REGULAR
MCA	COMPUTER APPLICATIONS	UNIVERSITY OFCALICUT	2003	74.7%	FIRSTCLASS	REGULAR

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
SREE NARAYANAINSTITUTE OF TECHNOLOGY	ASST.PROFESSOR	2007-07-16	2020-12-21	ASST.PROFESSOR	

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020148_201221124824	VCNB9579766884	21-12-2020	600	SUCCESS

Artificial intelligence (AI) is transforming healthcare delivery. The digital revolution in medicine and healthcare information is prompting a staggering growth of data intertwined with elements from many digital sources such as genomics, medical imaging and electronic health records. Such massive growth has sparked the development of an increasing number of AI-based applications that can be deployed in clinical practice. Pulmonary specialists who are familiar with the principles of AI and its applications will be empowered and prepared to seize future practice and research opportunities. The goal of this review is to provide pulmonary specialists and other readers with information pertinent to the use of AI in pulmonary medicine.

In the face of the current time-sensitive COVID-19 pandemic, the limited capacity of healthcare systems resulted in an emerging need to develop newer methods to control the spread of the pandemic. Artificial Intelligence (AI), and Machine Learning (ML) have a vast potential to exponentially optimize health care research. The use of AI-driven tools can help in eradicating health inequalities and decrease the burden on health systems.

The need of AI during this pandemic: AI can assist to increase the speed and accuracy of identification of cases and through data mining to deal with the health crisis efficiently.

Utility of AI in COVID-19 screening, contact tracing, and diagnosis: Efficacy for virus detection can be increased by deploying the smart city data network using terminal tracking system along-with prediction of future outbreaks

Use of AI in COVID-19 patient monitoring and drug development: A

Deep learning system provides valuable information regarding protein structures associated with COVID-19 which could be utilized for vaccine formulation,

As a part of the diagnosis process, doctor's take around 2000 Computed Tomography (CT) scans of a patient in the entire hospitalization process. Manually reading and comparing these scans requires a huge amount of manual effort. It takes around 15 minutes for an experienced doctor to analyze these scans. As the number of patients has proliferated considering the situation of how the virus is spreading there has been a scarcity in the number of doctors and experienced professionals. Medical professionals are made to work overnight and the individuals assessing these scans are often exhausted and operating under exorbitant workloads where human error could easily become an issue.

Hence, there is a need for accurate CT scan analysis system.

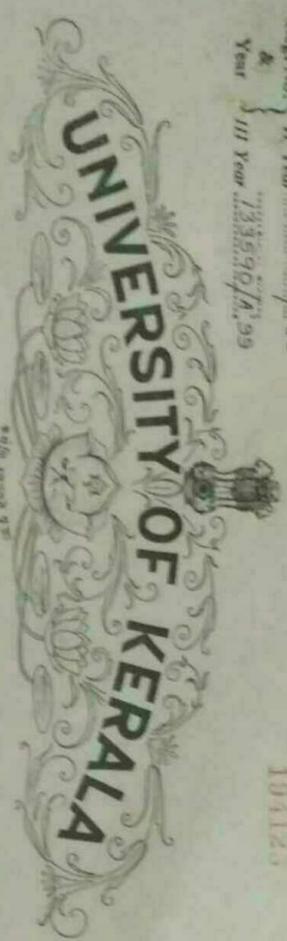
To expedite this scrutinizing process, a system which can help in significantly improving the testing accuracy and detection efficiency rates is needed. This system should be able to assist in identifying the coronavirus pneumonia CT scans with high accuracy. This identifies the scans within 20 seconds, which is 60 times faster than manual human detection methods.

The system can be trained with a dataset of positive coronavirus cases. It can use deep learning algorithms to study the patterns of infection and can be used for two things effectively: one to track responses in confirmed cases, and the other to provide diagnoses for the suspected

cases. It should be able to find the difference between common pneumonia and COVID- 19 pneumonia. Once this system identifies a CT scan as positive coronavirus case, it can help the doctors to productively track and look at the development of treatment of the Covid-19 patients.

Reg. No. } II Year 133590/A/98
& }
Year } III Year 133590/A/99

194123



FACULTY OF SCIENCE

The Senate of the University of Kerala hereby makes known that
Mariam Thomas has been admitted to the Degree of
Bachelor of Science, her/ she having been certified by duly appointed examiners to be
qualified to receive the same, and having been by them placed after passing the prescribed
examinations, in the *Second Class in Sans I - English*, in the *First Class in
Sans II - Sanskrit Language* (*Handi*) and in the
First Class in Sans III - General Subjects (*Physics*)
Mathematics and *Chemistry*
Substances in *April 1998*, *April 1998*
and *April 1999* respectively.
Given under the seal of the University.



University Buildings,
Thiruvananthapuram February 2, 2000.

Wm
Vice-Chancellor

3001-500 084



FACULTY OF ENGINEERING

Whereas it has been certified by duly appointed Examiners that
Miriam Thomas
is qualified to receive the Degree of Master of Computer Applications (M. C. A.)
which having been placed in *October* *2003* (Reg. No. *CRER*)
The Senate of the University of Calicut hereby confers on *her* the Degree of
Master of Computer Applications
with all the Rights, Privileges and Honours thereunto appertaining.
Given under the seal of the University.



CALICUT UNIVERSITY
673 036
Date 13-08-2004.

Muhammad
VICE-CHANCELLOR

Book No. 10
No. E. D. III

UNIVERSITY OF KERALA

Serial No. 22

Thiruvananthapuram,
Dated 12 Aug 1999



MEMORANDUM

The following marks were awarded to Shri / Smt. M. K. K. K.
at the Final Year B. Sc. Degree Examination of April / October 1999

Register Number 133590

Subjects	In figures	Marks awarded		Minimum for a pass	Maximum Marks
		In words			
PART III - OPTIONAL SUBJECTS					
(a) Written Examination	248				340
Internal assessment	60				60
Total	308	Three Zero Eight		140	400
Practicals & Laboratory Records					
Internal assessment	181				145/15/150
Total	15	One Nine Six		70	245/15/150
(b) Subsidiary Subjects					
1. Mathematics	175	One Seven Five		70	200
2. Chemistry	184	One Eight Four		70	200
Total for Part III	863	Eight Six Three		350	1000

Prepared by [Signature]
Checked by [Signature]
Section Officer [Signature]
U. P. 407/98-99, 100 x 200 Mm.

Controller of Examinations

Folio No. 149
No. EB - XI / 3

Name of Candidate: M. K. K. K.

M. C. A. MARKSLIST

UNIVERSITY OF CALICUT



Semester	Title	Second		Third		Fourth		Fifth		Seeds	Grand Total (Max. 2000)
		Marks awarded	Max. Marks								
Register No. & Year	1093/Nov-2000	228	375	245	375	278	375	234	375	628	2000
Written Session	186	225	102	111	125	114	125	150	175	75	43
Total	471	600	347	500	389	500	348	500	421	590	2094

Admitted on 24.5.2000
Prepared by [Signature]

College: Govt. Engineering College, Thrissur
Controller of Examinations

[Signature]
S. O.
K. R. D. R. (Exams.)

CLP-146/2001-100P-5

2. Possession of this Certificate does not entitle claim for appointment to any Posts.
Printed at ...

200

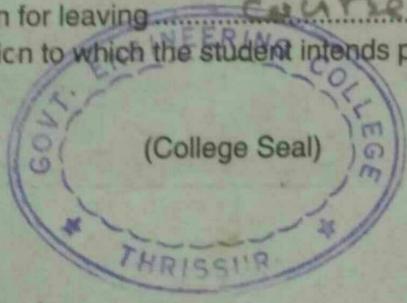


No. 326/03

Date 7-1-04

TRANSFER CERTIFICATE

1. Name of Student Miriam Thomas
2. Date of birth (in words and in figures) 28-9-1978 (Twenty eight, September Nineteen seventy eight)
3. Caste and religion X'ian, C.S.I
4. Admission No. 11/00-01
5. Date of admission 24-5-2000
6. Class to which admitted First year, M.C.A. Course
7. Date of leaving 20-10-2003
8. Class from which relieved Final year, M.C.A. Course
9. Whether qualified for Promotion to a higher class course completed
10. Whether all fees and other dues have been paid Yes
11. Whether the student was in receipt of fee concession NO
12. Date of application for T.C. 7-1-04
13. Reason for leaving course completed
14. Institucion to which the student intends proceeding -



Shimachan
 Principal
 PRINCIPAL
 GOVT. ENGG. COLLEGE
 THRISSUR - 0
 2/1/04

2020-12-20 16:56

SREE NARAYANA INSTITUTE OF TECHNOLOGY

Approved by All India Council for Technical Education, New Delhi & Affiliated to University of Kerala

VADAKKEVILA P.O., KOLLAM - 691 010

Tel : 0474 - 2723154, 2723156. Fax : 0474 -2723156

Website: www.snit.ac.in e-mail:snitech@gmail.com

Managed by Sree Narayana Educational Society, Kollam

Dr. T. Mahalekshmi
Principal

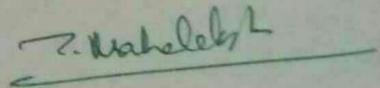
Ref No:SNES/SNIT/2020-2021\

Date: 17 - 12 - 2020

EXPERIENCE CERTIFICATE

This is to certify that Smt.Miriam Thomas, Bethel, Pattathanam, Kollam joined in Sree Narayana Institute of Technology, Kollam as Lecturer in Computer Applications on 16/7/2007. She was redesignated as Assistant Professor with effect from 01/02/2012. She has put in a total service of 13 years 5 months in this institution.

She is sincere and hardworking.



Principal

Principal
Sree Narayana
Institute of Technology
Vadakkovil - P O
Kollam - 691 010



2020-12-21 12:03

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

MIRIAM THOMAS

THOMAS

28/09/1978

Permanent Account Number

AKQPT3663G

Miriam Thomas
Signature



In case this card is lost / found, kindly inform / return to :
Income Tax PAN Services Unit, UTTISL,
Plot No. 3, Sector 11, CBD Belapur,
Navi Mumbai - 400 614.
एतद् कार्ड नो पावला/पावला वर प्रमाण थपामे नद/एकदा :
आयकर सेवा सेवा युनिट, UTTISL,
प्लॉट नो. 3, सेक्टर 11, सीडीबी बेलपुर,
नवी मुंबई - 400 614.

*For applying for PAN in Kolaba
Attended
Shirish Ranav
20/12/2020*

2020-12-23 08:11



भारतीय विशिष्ट पहचान प्राधिकरण
भारत सरकार
Unique Identification Authority of India
Government of India



E-Aadhaar Letter

പേരു ചേർക്കൽ നമ്പർ/Enrolment No.: 2001/13062/03191

Miriam Thomas (മിറിയം തോമസ്)
D/O: Thomas David, Bethel, Divya Nagar 1,
Chemmanmukku Junction, Pattathanam PO,
Pattathanam, Kollam,
Kerala - 691021

Date: 07/03/2014

നിങ്ങളുടെ ആധാർ നമ്പർ/ Your Aadhaar No.:

7289 8669 4128



- വിവരങ്ങൾ
- ആധാർ തിരിച്ചറിയലിനുള്ള രേഖയാണ്. പൗരത്വത്തിനുള്ളതല്ല.
 - തിരിച്ചറിയൽ ഓൺലൈൻ വഴി ആധികാരികമാക്കുക.
 - ഇതു കമ്പ്യൂട്ടർ ഉത്പാദിത കത്ത് ആണ്.

INFORMATION

- Aadhaar is a proof of identity, not of citizenship.
- To establish identity, authenticate online.
- This is electronically generated letter.

Validity unknown
Digitally signed by Miriam Thomas
Date: 2014.03.07 12:44:44 IST

ആധാർ-സാധാരണകാരന്റെ അവകാശം

1817 1800 500 1547 Help@uidai.gov.in www.uidai.gov.in

- ആധാർ രാജ്യത്തുടനീളം അംഗീകാരമുള്ളതാകുന്നു.
- ആധാർ ഒരു തവണ മാത്രം പേരുചേർക്കുക.
- ദയവായി നിങ്ങളുടെ മൊബൈൽ നമ്പറും ഇമെയിൽ അഡ്രസ്സും പുതുക്കുക. ഇതു ഭാവിയിൽ വിവിധ തരം സേവനങ്ങൾ ലഭ്യമാക്കാൻ നിങ്ങളെ സഹായിക്കും.

- Aadhaar is valid throughout the country.
- You need to enrd only once for Aadhaar.
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भारत सरकार
GOVERNMENT OF INDIA



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA



മിറിയം തോമസ്
Miriam Thomas
ജനന തീയതി/ DOB: 28/09/1978
സ്ത്രീ / FEMALE



വിലാസം:
D/O: തോമസ് ഡേവിഡ്,
ബഥൽ, ദിവ്യ നഗർ 1,
ചെമ്മനമുക്ക് ജംഗ്ഷൻ,
പട്ടത്താനം പി.ഒ.,
പട്ടത്താനം, കൊല്ലം,
കേരളം - 691021

Address:
D/O: Thomas David, Bethel, Divya
Nagar 1, Chemmanmukku Junction,
Pattathanam PO, Pattathanam, Kollam,
Kerala - 691021

7289 8669 4128

7289 8669 4128

ആധാർ-സാധാരണകാരന്റെ അവകാശം

Aadhaar-Aam Admi ka Adhikar

Attested
Miriam Thomas
20/12/20

2020-12-20 21:21

ANNEXURE-I

CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED

Certified that Mr./Ms./Mrs. Miriam Thomas is employed as (Designation) Asst. Professor in the (Department/Division Name) MCA of (Institution/Industry) Sree Narayana Institute of Technology, Kollam, Kerala. (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 :

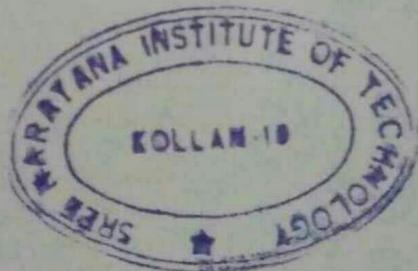
The candidate will be permitted to undertake part time study in the University/College and will be allowed to be present for discussions with the supervisor, attending course works, conduct of experiments and participations in seminars and related presentations. Further the required facilities at our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

Date : 17/12/2020

Signature of the Head of organization with office seal

M. Mahalingam

Principal
Sree Narayana
Institute of Technology
Vadakkevila P. O.
Kollam - 10



2020-12-21 12:07