



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

**APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES**

Date of Application:12-10-2023

Department	BIOMEDICAL ENGINEERIG	Application No.	202312094
Area of Research	MEDICAL PROCESSING	Research Mode	PART TIME

**Name** :GAYATHIRI J  
**Date of Birth / Age** :27-01-1991 / 32 Years  
**Gender** :FEMALE  
**Category** :BC  
**e-Mail ID** :ggayathiridevi@gmail.com  
**Mobile** :9790398326



<b>Father's/Husband's Name</b>	JEYACHANDRA GANDHI	<b>Father's/Husband's Occupation</b>	FARMER
<b>Family Income</b>	100000	<b>Residential Type</b>	RURAL
<b>Birth Place</b>	SIVAKASI	<b>Mother Tongue</b>	TAMIY
<b>Religion</b>	HINDU	<b>Martial Status</b>	MARRIED
<b>Aadhaar No.</b>	578270620662	<b>PAN No.</b>	BNIPG4573L
<b>Physically Challenged</b>	NO	<b>Type of Disability</b>	-
<b>Address for Communication:</b> 1/28, NAIDU STREET, SENGAMALAPATTI ALAMARATHUPATTI (POST) THIRUTHANGAL VIRUDHUNAGAR DISTRICT TAMIL NADU INDIA Pin-626130		<b>Permenant Address:</b> 1/28, NAIDU STREET, SENGAMALAPATTI ALAMATHUPATTI (POST) THIRUTHANGAL VIRUDHUNAGAR DISTRICT TAMIL NADU INDIA Pin-626130	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.TECH	EMBEDDED SYSTEM TECHNOLOGY	KALASALINGAM UNIVERSITY	2014	8	1	REGULAR
B.E	ECE	PSRR COLLEGE OF ENGINEERING	2012	8	1	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202312094_231025215326	ZHD51487715651	25-10-2023	600	SUCCESS

# **Predicting heart attack based on historical risk factors of the patient analysis-prediction dataset with high accuracy**

## Introduction

For examining the complex dynamics of heart health and its predictors, the Heart Attack Risk Prediction Dataset is an invaluable tool. Myocardial infarctions, also known as heart attacks, continue to be a major global health concern, calling for a fuller understanding of their causes and potential preventative measures. Age, cholesterol levels, blood pressure, smoking habits, exercise routines, food choices, and more are all included in this dataset, which aims to clarify the intricate interactions between these factors in predicting the chance of a heart attack.

Researchers and healthcare practitioners can develop proactive strategies for heart disease prevention and management by applying predictive analytics and machine learning to this dataset. The dataset is proof of our group's efforts to deepen our comprehension of cardiovascular health and open the door to a better future.

## Content

Including patient-specific information like age, gender, cholesterol levels, blood pressure, heart rate, and indicators like diabetes, family history, smoking habits, obesity, and alcohol consumption, this dataset offers a thorough array of features pertinent to heart health and lifestyle choices. In addition, lifestyle characteristics like sedentary time, eating patterns, stress levels, and exercise frequency are taken into account. Medical factors such as past heart issues, drug use, and triglyceride levels are taken into account. Geographical characteristics like country, continent, and hemisphere are combined with socioeconomic factors like income. The dataset, which includes 8763 patient records from all around the world, culminates in a vital binary classification characteristic indicating the existence or absence of a heart attack risk, offering a thorough resource for cardiovascular health research and predictive analysis.

## Prediction

Overabundance of plaque can obstruct blood flow in arteries, although it's frequently difficult to detect. Heart disease prognosis has never been a precise science. Future risk can be predicted by some

indicators, including diabetes, smoking, high blood pressure, elevated cholesterol (particularly LDL or "bad" cholesterol), and high cholesterol levels.

### Existing Algorithm

During the model development process, a 10-fold cross-validation strategy was used. The findings showed that the decision tree algorithm, which had a rate of 93.19%, had the best accuracy in predicting heart disease, followed by the SVM algorithm, which had a rate of 92.30%.

### Proposed methodology

One of the leading causes of death worldwide is coronary heart disease. One of the most difficult issues in the area of clinical data analysis is predicting a heart illness. In terms of decision-making and prediction, machine learning (ML) is helpful in the diagnostic process based on the data generated by the global healthcare industry. We have seen ML methods being used in the realm of disease prediction in medicine. A large number of research works on heart disease prediction using an ML classifier have been presented. To better predict cardiac disease, we can employ eleven ML classifiers in this research to uncover critical features. Numerous feature combinations and well-known classification methods can be employed to introduce the prediction model and increase the accuracy.

### Key contributions of the future effort:

The first thing the authors do is talk about datasets, which they subsequently standardize and polish. The datasets are then used to train and test several classifiers to see which one has the best accuracy. The correlation matrix is then used by authors to classify the best values or characteristics. The authors used parameter-tuned ML classifiers to apply to the preprocessed dataset in order to get the highest accuracy. The accuracy, precision (specificity), recall (sensitivity), and F-Measure of the suggested classifiers are assessed. Finally, compared to state-of-the-art classifiers, the proposed classifiers provide greater accuracy.

## References:

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2. World Health Organization Cardiovascular Diseases (CVDs) [(accessed on 10 January 2022)]. Available online: <https://www.afro.who.int/health-topics/cardiovascular-diseases>
3. [(accessed on 10 January 2022)]. Available online: <https://www.heart.org/en/health-topics/high-blood-pressure/why-high-blood-pressure-is-a-silent-killer/know-your-risk-factors-for-high-blood-pressure>
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# KALASALINGAM UNIVERSITY

Kalasalingam Academy of Research and Education  
(Under Section 3 of UGC Act 1956)



Register No : 9912108002

The Board of Management of the Kalasalingam University, hereby makes known that

Ms./Mr. **GAYATHIRI J** ..... has been admitted to the

Degree of **Master of Technology in Embedded System Technology** .....

he / she having been certified by duly appointed examiners to be qualified to receive the same

and having been placed in the **First Class with Distinction** .....

at the examination held in **Apr/May 2014** .....

Given under the seal of the University

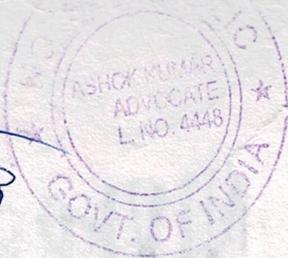


Anand Nagar,  
Krishnankoil - 626 126,  
Tamil Nadu, India

*M. Rajan*

*Seetha*

ATTORNEY  
NOTARY PUBLIC



Entry No 123

DEBA  
Sub Division  
D.C. Office  
New

STATE OF QATAR دولة قطر  
Ministry Of Foreign Affairs وزارة الخارجية

No.: 2022139002222/3 الرقم:  
Date: 14/03/2022 التاريخ:  
Amount: 2,200 INR السعر:  
In: في: نيودلهي  
GAYATHIRI J

نصادق على صحة الختم والتوقيع ل:  
وزارة الخارجية الهندية  
دون ادنى مسؤولية عن المحتويات  
03466050

No. 24090  
The signature of District Judge/Sub-Divisional Magistrate/Registrar of Marriage attested  
JAN 2022



الآنسة/ غبراء غانم الصالح  
RAJVEER SINGH  
Shahdara



(सुनील चनप)  
(SUMIL CHANAP)  
अनुभाग अधिकारी (साक्षात्पत्र / ओ.आइ)  
Section Officer (Attestation/O.I.)  
सी.पी.वी. प्रभाग / C.P.V. Division  
विदेश मंत्रालय, नई दिल्ली  
Ministry of External Affairs, New Del

Read by [Signature]

भारत सरकार GOVERNMENT OF INDIA  
अपोस्टिल / APOSTILLE  
(Convention de La Haye du 5 octobre 1961)  
INDIA

This public document of the type  
CERTIFICATE  
is issued to GAYATHIRI J  
has been signed by RAJVEER SINGH  
with the seal / stamp of SDM, SHAHDARA, DELHI

Certified by  
Section Officer(OI) MINISTRY OF EXTERNAL AFFAIRS  
on 17-Oct-2017 at NEW DELHI, INDIA  
with reference no. DLND0037127217

Seal / Stamp [Stamp]  
Signature  
(पुष्पा रंजन)  
(PUSHPA RANJAN)  
अनुभाग अधिकारी (साक्षात्पत्र / ओ.आइ)  
Section Officer (Attestation)  
सी.पी.वी. प्रभाग / C.P.V. Division  
विदेश मंत्रालय, नई दिल्ली  
Ministry of External Affairs  
New Delhi

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2417

# KALASALINGAM UNIVERSITY

(Kalasalingam Academy of Research and Education)  
(Under Section 3 of UGC Act 1956)



Sl. No : 98992090

Anand Nagar  
Krishnankoil – 626 126  
Tamil Nadu, INDIA



## M.Tech Degree Examinations CONSOLIDATED GRADE CARD

Name of the Student: GAYATHIRI J

Register No : 9912108002

Branch: Embedded System Technology

Batch: 2012-2014

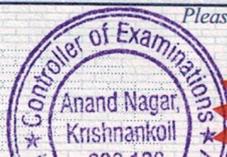
SEM	COURSE CODE	NAME OF THE COURSE	ATT. CODE	CREDITS	GRADE	MONTH & YEAR OF PASSING
<b>CGPA COURSES</b>						
1	EEE5101	Embedded Hardware	H	3	A	Nov/Dec 2012
1	EEE5102	Advanced Digital System Design	H	3	A	Nov/Dec 2012
1	EEE5103	Embedded Processors	H	3	B	Nov/Dec 2012
1	EEE5104	Object Oriented Programming	H	3	A	Nov/Dec 2012
1	EEE5117	Soft Computing	H	3	B	Nov/Dec 2012
1	EEE5181	Embedded System Laboratory I	H	2	S	Nov/Dec 2012
1	MAT5101	Applied Mathematics	H	3	D	Nov/Dec 2012
-----						
2	EEE5105	Embedded System Design	H	3	A	Apr/May 2013
2	EEE5106	Multiprocessor System on Chip	H	3	A	Apr/May 2013
2	EEE5107	Real Time Operating System	9	3	A	Apr/May 2013
2	EEE5108	Embedded Networks and Protocols	9	3	B	Apr/May 2013
2	EEE5109	Embedded Communication Software Design	9	3	A	Apr/May 2013
2	EEE5112	Robotics & Automation	9	3	A	Apr/May 2013
2	EEE5182	Embedded System Laboratory II	H	2	A	Apr/May 2013
-----						
3	EEE6098	Project Work Phase - I	9	6	C	Nov/Dec 2013
3	EEE6116	Digital Image Processing	H	3	A	Nov/Dec 2013
3	EEE6118	Advanced Embedded Systems	H	3	A	Nov/Dec 2013
3	EEE6119	Embedded Linux	H	3	A	Nov/Dec 2013
-----						
4	EEE6199	Project Work Phase II	H	12	B	Apr/May 2014

### CGPA CREDITS

EARNED	TOTAL TO BE EARNED	CGPA	CLASS AWARDED
67	67	8.40	First Class with Distinction

Please see overleaf for details

Place: Krishnankoil



*(Signature)*

Serial No.: 7405



# KALASALINGAM UNIVERSITY

(Kalasalingam Academy of Research and Education)

(Under Section 3 of UGC Act 1956)

(Accredited by NAAC with B Grade with a CGPA of 2.81)

Anand Nagar, Krishnan Koil -626126.

Srivilliputtur (Via), Virudhunagar (Dt), Tamil Nadu, India

## TRANSFER CERTIFICATE

- 1.Name of the pupil : GAYATHIRI J
- 2.Date of Birth : 27/1/1991
- 3.Nationality, Religion and Caste : Indian, Hindu and Vadugan
- 4.Date of joining to the university : 4/7/2012
- 5.Course details
  - a) Registration no. : 9912108002
  - b) Degree : M.Tech
  - c) Specialization : Embedded System Technology
  - d) Batch : 2012 - 2014
- 6.Whether qualified for promotion to a higher class : Yes(Refer the Grade Sheet)
- 7.Is there any break during the studies (if so specify the period) : No
- 8.Whether the pupil has paid all the fees to the University : Yes
- 9.Date on which application for TC was made : 28/5/2014
- 10.Date on which actually the pupil left the university : 3/4/2014
- 11.Medium of instruction : English



*[Handwritten Signature]*

J.GAYATHIRI

E-Mail: ggayathiridevi@gmail.com

Mobile: +974 30524589  
+91 9790398326

EDUCATION PROFILE

COURSE	INSTITUTION	PERIOD	%	GRADE
<b>M.Tech – (Embedded system Technologies)</b>	Kalasalingam University	July 2012- May 2014	<b>8.40 (CGPA)</b>	I Class with distinction
<b>BE - (Electronics and Communication Engineering)</b>	P.S.R.Rengasamy College Of Engineering For Women	Aug 2008- May 2012	<b>7.5 (CGPA)</b>	I Class
<b>HSC</b>	S.N.G.Girls higher secondary school, Thiruthangal-626130	Jun 2007- Apr 2008	<b>81.58</b>	I Class
<b>SSLC</b>	S.N.G.Girls higher secondary school, Thiruthangal-626130	Jun 2005 - Apr2006	<b>82.8</b>	I Class

EXPERIENCE DETAILS

- October 2014 – June 2018 (Worked as a Private teacher in Salalah, Oman)
  - November 2018 – July 2019 (Worked as a Private tutor in Doha, Qatar)
  - August 2019 – October 2020 (worked as a teacher in Tuition point education center, Al wakrah)
  - October 2020 – Present (Working as a mentor in Study plus education center)
  - At present I am working in study plus education center in Doha which is licensed by Qatar Government (Ministry of Education and Higher Education) and handling science (Physics) for middle- and higher-class students of CBSE, IGCSE, IB, FEDERAL and EDEXCEL curriculum.
  - I have 2 years experience in handling home tuition (Mathematics) for primary and secondary school students.
  - I have experience in handling Maths, Physics and ICT for CBSE, IGCSE and IB curriculum.
  - I have been taking online classes for higher grade students through Microsoft Teams online meeting software tool.
- I am working as a mentor in study plus education center. This institute have its STEM wing also. I have been working with the magikats forum and handled the children between the ages 3-12. I also have 3 years' experience with the IGCSE and IB curriculum. I used to handle both Math and science subjects.

PERSONAL PROFILE

**Father** : Mr. T. Jayachandra Gandhi  
**Date of Birth** : 27-01-1991  
**Gender** : Female  
**Marital Status** : Married  
**Visa Status** : Residential visa  
**Driving license** : Qatar, India  
**QID** : 29135636767  
**Languages Known** : Tamil, English (Read, Write and Speak)  
Telugu (speak)  
**Local Address** : Building number 52,  
Street number 431,  
Zone 90  
Al- wakrah.  
**Permanent Address** : New no.1/71 A4, Old no.1/6, Naidu Street,  
Sengamalapatti, Alamarathupatti (post)  
Thiruthangal (via), Sivakasi (taluk)  
Virudhunagar (dist.)-626130.

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

**Station: Doha-Qatar**

yours faithfully

**(J.GAYATHIRI)**

आयकर विभाग  
INCOME TAX DEPARTMENT



भारत सरकार  
GOVT. OF INDIA

GAYATHIRI

JAYACHANDRA GANDHI

27/01/1991

Permanent Account Number

BNIPG4573L

*Gayathiri*

Signature



04042014



**India Driving Licence(Tamilnadu)**

Form 7

DOI 06/05/2010

DL.No : TN67U20100001951  
Name : GAYATHIRI J  
S.D.W of : JEYACHANDRA GANDHI  
Address :  
1/28 SENGAMALAPATTI



SIVAKASI  
Temp. Addr  
SRI PADMANABA ITI, SIVAKASI  
D.O.B. : 27/01/1991 B.G. :



Punishments:

R.Dis. 1837 /2004 dt.

BC

சான்றிதழ் எண் :  
Certificate No. :

மாவட்டக் குறியீடு எண் :  
District Code :  
வட்டக் குறியீடு எண் :  
Taluk Code :  
கிராமக் குறியீடு எண் :  
Village Code :

1	7
0	7
0	14

5476598

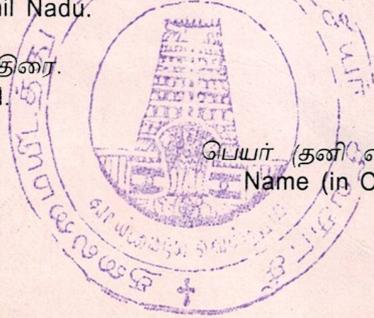
சாதிச் சான்றிதழ்  
COMMUNITY CERTIFICATE

..... மாவட்டம் ..... சிவகாசி ..... வட்டம்  
தமிழ்நாடு அரசு ..... கிராமம்/நகரம், திரு. / திருமதி / செல்வி/  
செல்வன் ..... கையகீர் ..... தகப்பனார்/கணவர்  
பெயர் ..... கையகீர் கந்தி .....  
..... கிங்கி ..... வடுகத்தி .....  
வகுப்பைச் சார்ந்தவர், அரசு ஆணை நிலை எண் 28, பிற்பட்ட மற்றும்  
மிகவும் பிற்பட்ட பிரிவின் நலத் துறை, நாள் 19-7-1994 வரிசை எண் 030 படி,  
பிற்பட்ட பிரிவினைச் சார்ந்தவர் எனச் சான்றளிக்கப்படுகிறது.

This is to certify that..... GAYATHIRI..... Son / Daughter of  
Thiru..... JAYACHANDRA SANDHI..... of..... SENGAMALA  
PATTI..... Village / Town..... SIVAKASI..... Taluk.....  
VIRUDHU NAGAR..... District of the State of Tamil Nadu belongs to  
..... HINDU..... VADUGAN..... Community, which is recognised as  
a Backward Class as per Government Order (Ms.) No. 28, Backward Classes  
and Most Backward Classes Welfare, dated 19th July 1994  
vide Serial No..... 030.....

2. திரு. / திருமதி / செல்வன் / செல்வி ..... கையகீர் .....  
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில் ..... வடுகத்தி .....  
மாவட்டத்தில் ..... சிவகாசி ..... வட்டத்தில் ..... சைவத்தி .....  
கிராமத்தில் / நகரத்தில் வசித்து வருகிறார்கள் எனச் சான்றளிக்கப்படுகிறது.

2. It is certified that Thiru/Tmt./Selvan/Selvi..... GAYATHIRI..... and  
his/her family ordinarily reside(s) at ..... SENGAMALA PATTI..... Village/  
Town ..... SIVAKASI..... Taluk VIRUDHU NAGAR..... District of  
Tamil Nadu.

முத்திரை.  
Seal.கையொப்பம் :  
Signature :நாள் :  
Date :பெயர் (தனி எழுத்துக்களில்)  
Name (in Capital Letters)பதவி :  
Designation :

ZONAL DEPUTY TAHSILDAR  
SIVAKASI

ANNEXURE-I

CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED

Certified that Mr./Ms./Mrs. GAYATHIRI.T is employed as (Designation)  
Physics tutor in the (Department/Division Name) Physics & Math of  
(Institution/Industry) Study Plus education , qatar (Name)

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

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 : 28/10/2023

Signature of the Head of organization with office seal

