



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:08-07-2020

Department	COMPUTER SCIENCE AND ENGINEERING	Application No.	20200211
Area of Research	ARTIFICIAL INTELLIGENCE IN AGRICULTURE SECTOR	Research Mode	PART TIME

Name :HAJARE MANGESH MHALU
Date of Birth / Age :01-08-1984 / 35 Years
Gender :MALE
Category :OBC
e-Mail ID :mangesh.hajare198@gmail.com
Mobile :8087613855



Hajare

Father's/Husband's Name	MHALU BHAAU HAJARE	Father's Occupation	
Family Income	408000	Residence	
Birth Place	VHANNUR	Mother's Name	
Religion	HINDU	Marital Status	
Aadhaar No.	972561100263	PAN No.	
Physically Challenged	NO	Type of Disability	
Address for Communication: MR.MANGESH HAJARE, ASSISTANT PROFESSOR IN COMPUTER SC.& ENGG. DEPARTMENT SANJEEVAN ENGG & TECH. INSTITUTE ,SANJEEVAN KNOWLEDGE CITY , A/P - SOMWAR PETH-INJOLE , PANHALA PANHALA KOLHAPUR DISTRICT MAHARASHTRA INDIA Pin-416201.		Permanent Address	243 SIDDI KAG KOL MAH INDI Pin-4

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.TECH	COMPUTER SCIENCE & TECHNOLOGY	SHIVAJI UNIVERSITY KOLHAPUR	2017	60.60	FIRST	REGULAR
B.E	COMPUTER SCIENCE & ENGINEERING	SHIVAJI UNIVERSITY KOLHAPUR	2007	65.79	FIRST	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE PANHALA	ASSISTANT PROFESSOR	2016-06-13	2020-07-08	FULL TIME
SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE PANHALA	ASSISTANT PROFESSOR	2011-06-13	2016-05-31	FULL TIME
EKALAVYA SHIKSHAN SANSTHA POLYTECHNIC PUNE	LECTURER	2008-11-06	2011-05-31	FULL TIME
SAHYADRI POLYTECHNIC SAWARDE	LECTURER	2007-07-27	2008-05-14	FULL TIME

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
20200211_200710163629	SHMP8983592509	10-07-2020	600	SUCCESS

Statement of Purpose

Mr.Mangesh Mhalu Hajare

Asst. Professor in Computer Science & Engineering,
Sanjeevan Engineering & Technology Institute, Panhala(MH).416201

I want to pursue a Ph.D. in Computer Engineering, and my career aspiration is to work in computer science research stream to make a significant contribution to the agriculture sector in india . My research interest includes artificial intelligence in agriculture, machine learning, digital image processing & High performance computing.

My Primary Interests

My topic of interest is “**Artificial Intelligence in Context Based Farming in Rural Part of India**”. Agriculture plays a vital role in India’s economy. Essentially, AI in agriculture is segmented into robotics, soil & crop management and is designed to make farming easier, more accurate, more profitable, and more productive for the farmer. It is estimated that AI and connected farm services can impact 70 million Indian farmers by 2020, thereby increase in farmer’s income. Furthermore, issues such as population growth, climate change, and food security demand innovative ways to improve crop yield. Therefore, understanding the use of AI in agriculture becomes compelling. The world needs to produce 50% more food by 2050. However, only 4% of additional land will come under cultivation to meet this demand. AI holds the promise of driving an agricultural revolution at a time when the world must produce more food using fewer resources.

The context of any crop is highly dependent on the local environment. It may change invariably from location to location. Even atmospheric conditions also drastically changes from one location to other. I am aiming to carry the research in the field of agriculture sector of rural India. Now day’s farmers in India are facing lot of problems like drastic climate change which affect the yield of the crops due to the inception the diseases. I want work on this area where we can make use artificial intelligence with the help of IoT devices & wireless sensors network to collect the on field data through IoT cloud and provide the farmers with statistical info and some useful patterns. It is very much difficult for the farmer to continuously monitor the various contexts of crop like:

- a. Temperature
- b. Soil moisture
- c. Humidity
- d. Average rainfall etc.

These factors affect the yield of the crop. An artificial intelligence along with IoT devices & WSN will definitely help to improve the crop performance. I want to perform a novel research which will help the farmers in rural part of India to a decision making regarding the drastic change in the environment. So the farmers will able to apply appropriate methods of pesticides spraying and other protective measures.

Conclusion:

I am aware that Kalasalingam University expects high standards from its students. On my part, I can assure you of hard work and sincere efforts. I believe that my enthusiasm will enable me to meet those expectations. My abilities of giving 100 percent towards any work give me confidence to complete the expectations. I am looking forward to a mutual association with Kalasalingam University.

Mr. M.M.Hajare

Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and
Members of the Management Council on
the recommendation of the Academic Council certify that

Hajare Mangesh Mhalu
Mother's Name - Bhikabai
has passed the



Master of Technology
Examination in the Subject
Computer Science And Technology

in the year December 2016.

The said degree has been conferred on him
at Kolhapur in the Winter Session
of the year two thousand eighteen.

In Testimony whereof are set the seal of the
university and signatures of the Registrar and the Vice-Chancellor

Registrar



Vice-Chancellor

Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and
Members of the Management Council, on
the recommendation of the Academic Council, certify that

Hajare Mangesh Mhalu
Mother's Name - Bhikaabai
has passed the



Bachelor of Engineering

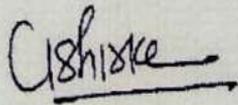
Computer Science and Engg.

Examination in First Class

in the year April 2007.

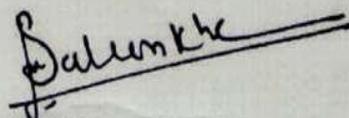
The said Degree has been conferred on him
at Kolhapur, on the 8th day of the month of
December in the year two thousand seven.

In Testimony whereof are set the Seal of the University
and the Signatures of the Registrar and the Vice-Chancellor



Ag. Registrar





Vice-Chancellor



GOVERNMENT OF MAHARASHTRA

GOVERNMENT POLYTECHNIC, KOLHAPUR

(AN AUTONOMOUS INSTITUTE)

Shri / Smt. Hajare Mangesh Mhalu


the withinsigned,

having been examined in December 2003 for the Three Year Diploma Programme in **Electrical Engineering** and having been adjudged to have passed in First with Dist. class has been awarded the

Diploma in Electrical Engineering

by Government Polytechnic, Kolhapur

on the nineteenth day of the month of March in the year Two Thousand and four.

In testimony whereof are set the seal and signatures of the authorities.



Waidi
Principal

Shahjan
Chairman
Governing Body



महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ, पुणे

Maharashtra State Board Of

Secondary and Higher Secondary Education, Pune

माध्यमिक शालान्त परीक्षा प्रमाणपत्र

SECONDARY SCHOOL EXAMINATION CERTIFICATE

असे प्रमाणित करण्यात येते की / This is to certify that

HAJARE MANGESH MHALU

विभागीय मंडळ Divisional Board	आसन क्रमांक Seat No.	केन्द्र क्रमांक Centre No.	शाला क्रमांक School No.	प्रमाणपत्राचा अनुक्रमांक Sr. No. of Certificate
KOLHAPUR	F136060	1167	23.541	073932

माध्यमिक शालान्त प्रमाणपत्र परीक्षा

has passed the SECONDARY SCHOOL CERTIFICATE EXAMINATION MARCH-2000

श्रेणीमध्ये खाली दर्शविलेले विषय घेऊन उत्तीर्ण झाला/झाली आहे.

in Grade **DISTINCTION** with subjects shown below.

मुख्य विषय Main Subjects	कमाल गुण Max. Marks	प्राप्त गुण Marks Obtained	श्रेणीचे विषय Subjects of Grade	श्रेणी Grade
MARATHI	100	070	[WORK EXP./TECH.]	
HINDI	100	073	MAINT.HOUSEHOLD AP	A
ENGLISH	100	065	[SCHOOL SUBJECTS]	
MATHEMATICS	150	107	HEALTH PHYSICAL ED	A
SCIENCE	150	141	SOCIAL SERVICE	A
SOCIAL SCIENCES	150	116	VALUE EDUCATION	A
			GENERAL KNOWLEDGE	A
एकूण गुण/Total Marks	750	572	PERCENTAGE=>	76.26
एकूण प्राप्त गुण (अक्षरी)/ Total Marks Obtained (In words)	FIVE HUNDRED AND SEVENTY TWO			
जन्म दिनांक / Date of Birth	01/08/1984 FIRST AUGUST NINETEEN EIGHTY FOUR			

0572804

018073710

KOLHAPUR
14TH JUNE, 2000



Signature

विभागीय सचिव / Divisional Secretary

Sr. No.: 2015-16 / 0705739

PRN : - 1112285553
84221Seat No. :- 2086
Branch: Computer Science And TechnologySTATEMENT SHOWING THE NUMBER OF MARKS OBTAINED BY
Shri HAJARE MANGESH MHALU Mother's Name : BHIKABAI
in each head of passing at the M.Tech. examination held in Dec. 2016.

College : (SUK) SHIVAJI UNIVERSITY

SEMESTER - 3	Practical			TermWork		
	Max	Min	Obt	Max	Min	Obt
1. Software Development	50	20	P 30	50	20	P 37
2. Dissertation Phase - I	100	40	P 74	100	40	P 80
Total Marks in figures(Out Of				300)	221	

TWO HUNDRED AND TWENTY ONE OUT OF THREE HUNDRED

Result: PASS 73.67%

SEMESTER - 4	Practical			TermWork		
	Max	Min	Obt	Max	Min	Obt
1. Dissertation Phase - II	200	80	170	100	40	85
Total Marks in figures(Out Of				300)	255	
Total Of Semester - 1 (Out Of 700)				: 380		
Total Of Semester - 2 (Out Of 700)				: 356 \$ 0.94		
Grand Total (Out Of 2000):				1212		

ONE THOUSAND TWO HUNDRED AND TWELVE OUT OF TWO THOUSAND

Result: First Class 60.60%

Kolhapur Date: 28/7/2017

Director

SHIVAJI UNIVERSITY KOLHAPUR

Sr.No.: 2007 / 048701



(00084F)
PRN :- 0412193651

Seat No. :- 15608

STATEMENT SHOWING THE NUMBER OF MARKS OBTAINED BY

Branch: Computer Science and Engg.

Snr1 HAJARE MANGESH MHALU BHIKAABAI

College :- BCE

in each head of passing at the B.E. examination held in May, 2007

SEMESTER - 7	Theory			Practical			TermWork		
	Max	Min	Obt	Max	Min	Obt	Max	Min	Obt
1. ADVANCED COMPUTER ARCH.	100	40	P 45	---	---	---	25	10	P 23
2. DISTRIBUTED SYSTEMS	100	40	P 52	50	20	P 40	25	10	P 20
3. NETWORK ENGINEERING	---	---	---	50	20	P 38	25	10	P 20
4. INFORMATION TECHNOLOGY	100	40	P 47	---	---	---	25	10	P 21
5. OBJECT ORIENTED MODELING & DESIGN	100	40	P 46	---	---	---	25	10	P 19
6. PROJECT	---	---	---	50	20	P 45	25	10	P 23

Total Marks in figures(Out Of 700/315) 439

FOUR HUNDRED AND THIRTY NINE OUT OF SEVEN HUNDRED

Result: PASS DIR-SE 62.71%

SEMESTER - 8	Theory			Practical			TermWork		
	Max	Min	Obt	Max	Min	Obt	Max	Min	Obt
1. ADVANCED DATABASE SYSTEMS	100	40	64	---	---	---	25	10	18
2. COMPONENT TECHNOLOGY	100	40	66	---	---	---	25	10	18
3. INFORMATION SECURITY	100	40	47	---	---	---	25	10	22
4. WEB TECHNOLOGY	---	---	---	50	20	43	25	10	21
5. MOBILE COMPUTING	100	40	47	---	---	---	25	10	19
6. PROJECT	---	---	---	75	30	71	50	20	46

Total Marks in figures(Out Of 700/315) 482

FOUR HUNDRED AND EIGHTY TWO OUT OF SEVEN HUNDRED

Result: PASS DIR-SE 68.86%

Grand Total (Out Of 1400/630): 921

NINE HUNDRED AND TWENTY ONE OUT OF ONE THOUSAND FOUR HUNDRED

Result: First Class DIR-SE 65.79%

(Handwritten Signature)

Kolhapur Date: 24/06/2007

I/C CONTROLLER OF EXAMINATIONS

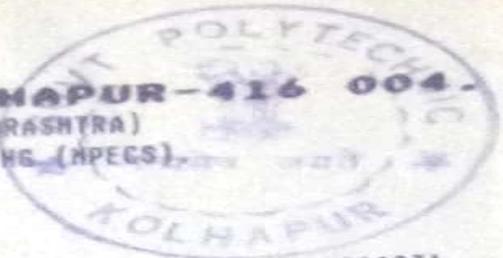
GOVERNMENT POLYTECHNIC, KOLHAPUR-416 004.

(AN AUTONOMOUS INSTITUTE OF GOVT. OF MAHARASHTRA)

DIPLOMA PROGRAM IN ELECTRICAL ENGINEERING (MPECS)

STATEMENT OF MARKS

000 TERM END EXAM WINTER-2003



Shri HAJARE MANGESH MHALU

EXAM NO:- 6231 CONSTNO:- 10800231

LEVEL 3														
CODE NO	COURSE CODE	C	TH	TS	TO	OR	PR	TW	CA	YEAR OF EXAM				
			Max	20	100	25	25	25						
		Min	27		40	10	10	10						
E301	ELP-I TW 50/20	05	55	12	67	--	--	34	CA	W-2001				
E302	ELP-II	05	62	20	82	--	--	22	CA	S-2002				
E303	PWS OR & TW 50/20	04	--	--	--	38	--	40	CA	S-2003				
ANY FOUR E307 TO E313			--	--	--	--	--	--	--	--				
AP E307	ELC	05	42	11	53	--	--	16	CA	W-2002				
E308	TEE	05	64	18	82	--	--	19	CA	W-2002				
E310	SMP	05	57	13	70	--	--	19	CA	W-2002				
E313	ITX	05	50	09	59	--	--	20	CA	W-2002				
LEVEL 4														
E401	CPM TW 50/20	06	--	--	--	12	--	37	CA	W-2001				
E402	CPA	05	--	--	--	16	--	16	CA	W-2002				
ANY ONE E403 TO E406			--	--	--	--	--	--	--	--				
E404	INH	03	54	17	71	--	--	--	CA	S-2003				
FOUR E407 TO E414			--	--	--	--	--	--	--	--				
E407	EPT	05	47	13	60	--	--	18	CA	S-2003				
E408	PTX	05	61	09	70	--	--	20	CA	S-2003				
E409	EEC	05	61	12	73	--	--	20	CA	S-2003				
E412	ENT	05	66	19	85	--	--	20	CA	S-2003				
TOTAL CREDITS		180	MARKS OUT OF		1600	MARKS OBTAINED		1139	PERCENTAGE		71.19	RESULT		I CLASS WITH DIST.

NOTE : (TH= THEORY, TS= TEST, TO=TOTAL, OR=O=ORAL, PR=P=PRACTICAL TW=T=TERMWORK)
 (CA=CREDIT ACQUIRED, CC=CREDIT CLAIMED, * FAILURE IN COURSE CODE)
 (C = CREDIT, PLL = PENDING LOWER LEVEL, # GRACE MARKS.)

Date:-05/01/2004

Entered By :- *[Signature]*

Checked By *[Signature]*

[Signature]
 CONTROLLER OF EXAMINATIONS
 GOVT. POLYTECHNIC, KOLHAPUR

[Signature]
 PRINCIPAL
 GOVT. POLYTECHNIC, KOLHAPUR

Date: 10/07/2020

To,
Hon. Director Research,
Kalasalingam Academy of Research & Education
Anandnagar, 626126.

Subject: Undertaking for Transfer Certificate

Respected Sir,

Myself Mr. Mangesh Mhalu Hajare, wish to apply for PhD Programme in computer science / IT Engg. at your university. For the same, I have to produce the "Transfer Certificate" to upload at online form. But I am unable to produce the "Transfer Certificate" right now because, my university doesn't allow me to get the "Transfer Certificate" unless & until student confirms its admission at other university. So, hereby I want to make you assure that, once I will confirm admission at your university, I will be able to produce the "Transfer Certificate" without any problem. Again I will assure that, if I will fail to produce the Transfer Certificate then it will be my responsibility and liable to accept any disciplinary action including "Admission Cancellation". So, I request you to kindly consider my application and allow me to appear for admission process.

Thanking You.

Hajare
10/7/20
Mr. Mangesh Mhalu Hajare
Assistant Prof, Sanjeevan
Engg & Tech. Institute Panhala
Email: mangesh.hajare198@gmail.com
Phone: 8087613855

Ref. No. SETI/EST./2020/112

Date: 10/07/2020

EXPERIENCE CERTIFICATE

This is to certify that, **Prof. Hajare Mangesh Mhalu** is working in this Institute as Assistant Professor in Computer Science & Engineering Department

The details of his services are as under ;

- 1) From 13rd June. 2011 to 31st May 2016 - (Ad-hoc Appointment)
- 2) From 13rd June 2016 to till date - (Ad-hoc Appointment)

To the best of my knowledge, she bears a good moral character.



for Mhalu
PRINCIPAL

PRINCIPAL
Sanjeevan Engineering & Technology Institute
Somwar Peth, PANHALA, Dist. Kolhapur. 416201

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA



स्थायी लेखा संख्या कार्ड
Permanent Account Number Card

ACXPH7654N



नाम / Name

MANGESH MHALU HAJARE

पिता का नाम / Father's Name

MHALU BHAU HAJARE

जन्म की तारीख /

Date of Birth

01/08/1984

हस्ताक्षर / Signature



भारतीय विशिष्ट ओळख प्राधिकरण

भारत सरकार

Unique Identification Authority of India
Government of India

नोंदविण्याचा क्रमांक / Enrollment No.: 0000/00482/66472

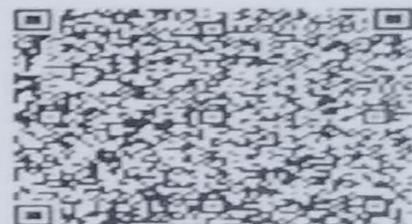
To,
मंगेश म्हाळू हजारे
Mangesh Mhalu Hajare
S/O Mhalu Bhaau Hajare
244a
Siddhivinayak Mandir Gallee
Vhannur
Vhannur Kolhapur
Maharashtra 416216
8087613855

10/06/2014

Ref: 810 / 30X / 161761 / 161763 / P



SB562028121FH



आपला आधार क्रमांक / Your Aadhaar No. :

9725 6110 0263

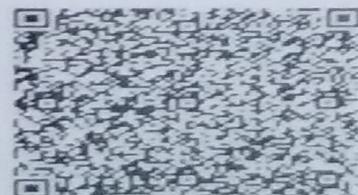
माझे आधार, माझी ओळख



भारत सरकार

Government of India

मंगेश म्हाळू हजारे
Mangesh Mhalu Hajare
जन्म तारीख / DOB : 01/08/1984
पुरुष / Male



9725 6110 0263

माझे आधार, माझी ओळख



Form B-2 (Amended)
RULE 5(5)(4)(IV)

Form of Caste Certificate to be issued Other Backward Classes, Vimukta Jati (A) Nomadic Tribes (B, C & D), Special Backward Class, Educationally and Socially Backward Class and Special Backward Class (A) and its synonyms belong to State of Maharashtra

Documents Verified

- 1 Application in form B of Dated ---- 14/01/2019
- 2 Affidavit Made Before Exe.Magl. Kagal No. 1853042901268500051894 Date- 14/01/2019
- 3 Income Certificate for the last 3 years issued by the Tahsildar Kagal No. 42905075861 Date- 11/01/2019
- 4 Caste Certificate of Applt. issued by Sub Divisional Officer Karvir Division, Kolhapur Sr No. 642/2000 Date- 07/07/2008
- 5 Residence Certificate issued by Grampanchayat Office Vhanur Date- 08/01/2019
- 6 Bonafide Of Beneficiary issued by H.M Shri Daulatrao Nikam Madhyamik Vidyalaya, Vhanur Tal Kagal Reg No. 234 Date- 08/01/2019
- 7 Copy Adhar Card No. 8725 6110 0263
- 8 Copy of Ration Card SK- 2136125

SDO/Non Creamy VJNT Reg./Case No 4295085546
 Year 2018 - 2019
 Dated: 15/01/2019
 Outward No: 4295085546

CASTE CERTIFICATE (PART-A)

This is to certify that Shri Mangesh Mahlu Hajare Son of Shri Mahlu Bhau Hajare of village Vhanur, taluka Kagal, district Kolhapur of the State of Maharashtra belongs to the Dhangar(29) Tribe which is recognized as Nomadic Tribe(C) under the Government Resolution No CBC-1089/ (203)/ MVK-5 dated 25/05/1990 as amended from time to time.

Shri Mangesh Mahlu Hajare and/or his family ordinarily reside(s) in village Vhanur, taluka Kagal, district Kolhapur of the State of Maharashtra.

NON-CREAMY LAYER CERTIFICATE (PART-B)

This is to certify that Shri Mangesh Mahlu Hajare does not belong to the persons/sections (Creamy-layer) mentioned in the Government of Maharashtra Gazette, Part IV-B, dated 29th January 2004, Maharashtra State Public Service Commission (Reservation for S.C./S.T./D.T. (V.J.)N.T., S.B.C. & O.B.C. Act, 2001 and instructions and guidelines laid down in the Government Resolution, Social Justice, Cultural Affairs, Sports and Special Assistance Department No. CBC-10/2001/Pra.Kra.120/Mayak-5, dated 1st November 2001, CBC-1094/Pra.Kra.86/Mayak-5, dated 16th June, 1994, CBC-1094/Pra.Kra.86/Mayak-5, dated 5th June, 1997 and Government Resolution No.CBC- 10/2001/Pra.Kra.111/Mayak-5, dated 29th May 2003 and Government Resolution No. VJNT-2014/C.R.118/VJNT-1, dated 31st July 2014 and Government Resolution No.CBC-10/2008/Pra.Kra.697/VJNT-1, Dated 16 Dec 2017.

This Certificate is valid for the period upto 31-Mar-2021 from the date of issue.

Signature valid

Digitally Signed by

Manish Kumar

Date: 28/01/2019 12:27:55 PM

Sub Divisional Officer

Radhanagar-Kagal

Date : 24/01/2019

(With the seal of Office)

Place : Kolhapur

Ref. No. SETI/Ph.d/2020/ J11

Date: 10th July, 2020

ANNEXURE-I

Certified that Mr. HAJARE MANGESH MHALU is employed as Assistant Professor in the department of Computer Science & Engineering of Sanjeevan Engineering & Technology Institute Panhala.

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

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: 10/07/2020



For M. M. M. M.
Principal,

Sanjeevan Engineering & Technology Institute, Panhala

PRINCIPAL
Sanjeevan Engineering & Technology Institute
Somwar Peth, PANHALA, Dist. Kolhapur. 416201