



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:15-07-2021

Department	COMPUTER SCIENCE AND ENGINEERING	Application No.	202110206
Area of Research	ARTIFICIAL INTELLIGENCE	Research Mode	PART TIME

Name :VENKATESWARA REDDY.P

Date of Birth / Age :01-11-1987 / 33 Years

Gender :MALE

Category :OC

e-Mail ID :venkateswarlureddy.p@gmail.com

Mobile :8985961066



Venkateswara P.

Father's/Husband's Name	VENKATARAMI REDDY	Father's/Husband's Occupation	FARMER
Family Income	60,000	Residential Type	RURAL
Birth Place	LAKSHMIPURAM	Mother Tongue	TELUGU
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	804072799546	PAN No.	BFFPP4796B
Physically Challenged	NO	Type of Disability	-
Address for Communication: 101/1 PEDDIREDDY VARI STREET BRAHMANAKRAKA VILLAGE SPSR NELLORE DISTRICT AP INDIA Pin-524223		Permenant Address: 101/1 PEDDIREDDY VARI STREET BRAHMANAKRAKA VILLAGE SPSR NELLORE DISTRICT AP INDIA Pin-524223	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.TECH	CSE	JNTUA	2012	83.7	FIRST CLASS WITH DISTINCTION	REGULAR
B.TECH	IT	JNTUA	2009	72.12	FIRST CLASS WITH DISTINCTION	REGULAR
INTER	MPC	INTERMEDIATE BOARD	2005	66	FIRST CLASS	REGULAR
SSC	MPC	SECONDARY BOARD	2003	61	FIRST CLASS	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
PBR VITS,KAVALI	ASSISTANT PROFESSOR	2012-07-05	2016-06-15	TEACHING

MEKAPATI RAJA MOHAN REDDY INSTITUTE OF TECHNOLOGY AND SCIENCE	ASSISTANT PROFESSOR	2016-06-15	1970-01-01	TEACHING
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Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202110206_210720160647	VSM20128006642	20-07-2021	600	SUCCESS

Deep Reinforcement Learning-Deep Recurrent Q-Network model- Crop Yield Prediction Using Model for Sustainable Agri related Applications

ABSTRACT

Machine learning has emerged with big data technologies and high-performance computing to create new opportunities for data intensive science in the multi-disciplinary agri-technologies domain. Predicting crop yield based on the environmental, soil, water and crop parameters has been a potential research area. Deep-learning-based models are broadly used to extract significant crop features for prediction. Though these methods could resolve the yield prediction problem there exist the following inadequacies: Unable to create a direct non-linear or linear mapping between the raw data and crop yield values; and the performance of those models highly relies on the quality of the extracted features.

Deep

reinforcement learning provides direction and motivation for the aforementioned shortcomings. Combining the intelligence of reinforcement learning and deep learning, deep reinforcement learning builds a complete crop yield prediction framework that can map the raw data to the crop prediction values. The proposed work constructs a Deep Recurrent Q-Network model which is a Recurrent Neural Network deep learning algorithm over the Q-Learning reinforcement learning algorithm to forecast the crop yield.

The sequentially stacked layers of Recurrent Neural network is fed by the data parameters. The Q-learning network constructs a crop yield prediction environment based on the input parameters. A linear layer maps the Recurrent Neural Network output values to the Q-values. The reinforcement learning agent incorporates a combination of parametric features with the threshold that assist in predicting crop yield. Finally, the agent receives an aggregate score for the actions performed by minimizing the error and maximizing the forecast accuracy. The proposed model efficiently predicts the crop yield outperforming existing models by preserving the original data distribution with an more accuracy.

KEY WORDS-Machine learning, Crop yield prediction, deep recurrent Q-network, deep reinforcement learning, agri-application

CC075555

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

H.T.No:10K21D0808

Venkateswara Reddy P

No Venkata Rami Reddy

*having fulfilled the academic requirements and passed the examination held during October, 2012 in *** First Class With Distinction ****

has this day been admitted by the Monitoring & Development Committee to the Degree of

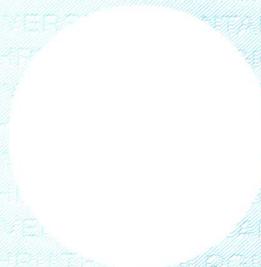
Master of Technology

(COMPUTER NETWORKS)

Computer Science & Engineering

Friday, 5 December, 2014.

Given under the Seal of the University



[Signature]

Director of Evaluation

[Signature]

Registrar

[Signature]

Vice Chancellor





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTAPUR - 515 002, ANDHRA PRADESH, INDIA

MEMORANDUM OF MARKS

MEMO NO. : JA 0896579

S.No. : 100909785

EXAMINATION : M.TECH II SEMESTER(R09) REGULAR

BRANCH : COMPUTER NETWORKS

NAME : P VENKATESWARA REDDY

HALL TICKET NO. :

10K21D0808

MONTH & YEAR OF EXAM : OCTOBER 2011

INSTITUTION : QCET-VENKATACHALAM-NELLORE

S. No.	SUBJECT CODE	SUBJECT TITLE	INTERNAL MARKS	END EXAM	TOTAL MARKS	RESULT	CREDITS
1	9D08206a	WIRELESS NETWORK SECURITY	34	45	79	P	4
2	9D08205	CRYPTOGRAPHY AND NETWORK SECURITY	39	47	86	P	4
3	9D08201	WIRELESS NETWORKS	36	44	80	P	4
4	9D08202	MOBILE ADHOC NETWORKS	35	42	77	P	4
5	9D08204	OPTICAL NETWORKS	37	43	80	P	4
6	9D08203	PEER TO PEER NETWORKS	36	47	83	P	4
7	9D08207	WIRELESS NETWORKS LAB	39	57	96	P	2
SUBJECTS REGISTERED : 7 APPEARED : 7 PASSED : 7 TOTAL :			256	325	581		26

AGGREGATE (IN WORDS) *****Five Eight One*****



DATE : Wednesday, May 2, 2012

VERIFIED BY

Kalyan

E. Kechara Reddy
CONTROLLER OF EXAMINATIONS

INSTRUCTIONS :

	MAXIMUM MARKS		
	Internal	End Exam.	Total of Int. & End
THEORY/DRAWING/DESIGN SUBJECTS	40	60	100
PRACTICAL SUBJECTS	40	60	100

MINIMUM FOR PASS	
End Exam	Total of Int. & End
24	50
24	50

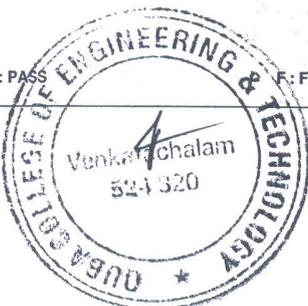
P: PASS

F: FAIL

AB: ABSENT

ATTESTED

P. Venkateswara Reddy
PRINCIPAL



QUDA COLLEGE OF ENGG. & TECH.
VENKATACHALAM - 524 320
SPSR Nellore Dist. (A.P.)



QUBA COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to J.N.T.U. - Approved by A.I.C.T.E.
VENKATACHALAM, Nellore Dist. - 524 320 (A.P.)

ORIGINAL

TRANSFER CERTIFICATE

S. No. **2211**

DATE: 24/12/2016

ROLL No. 10K21D0808

ADMISSION No. 08/10-21-D0808

1. Name of the Student in full : VENKATESWARA REDDY P
2. Sex : MALE
3. Name of the Parent / Guardian : VENKATA RAMI REDDY
4. Nationality / Religion : INDIAN - HINDU
5. Whether the student belongs to S.C., S.T., DNT & BC if so Particulars thereof : OC
6. Date of Birth as per admission Register & in words also : 01/11/1987 ZERO ONE NOVEMBER ONE NINE EIGHT SEVEN
7. Class in which the student Admitted and Branch : Ist M.TECH - CN
- a) Date of Admission & Year : 23/11/2010
- b) Duration of Course : 2 YEARS
8. Class in which the student reading at the time of leaving & reasons of leaving : IIrd M.TECH, COURSE COMPLETED
9. Mother tongue : TELUGU
10. Whether the student has been declared eligible for studying II/III/IV year course : -
11. Whether the student is in receipt of any scholarship (Nature of scholarship to be specified) : -
12. Date on which the student has actually left the college. : OCTOBER, 2012.
13. Conduct : good
14. Signature of Head of the Institution :



Checked By

Principal
QUBA COLLEGE OF ENGG. & TECH.
VENKATACHALAM - 524 320
N.T.U. Nellore Dist. (A.P.)



MEKAPATI RAJAMOHAN REDDY INSTITUTE OF TECHNOLOGY & SCIENCE
UDAYAGIRI - 524 226, SPSR Nellore Dist. (A.P.)

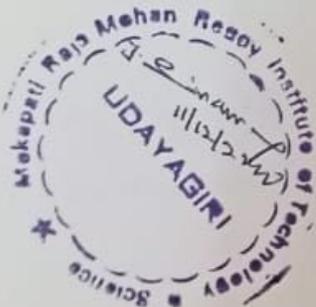
Dt. 11/12/2020

SALARY CERTIFICATE

This is to certify that Mr. P. VENKATESWARA REDDY, is working as Asst. Professor in CSE Department of our Institute during 15th June 2016 to till date. The particulars of his salary for the Month of November - 2020 as follows. This certificate is issued based on his personal request without any liability.

EARNINGS		DEDUCTIONS	
Basic Salary	25,272-00	P F	-
D A	-	P T	200-00
H R A	-	I T	-
Others	-	Others	747-00
Gross Salary	25,272 - 00	Total	947 -00
		Net Salary	24,325-00

(Rupees Twenty-four Thousand Three Hundred and Twenty-five only)



(Dr. M. Manoj Kumar Reddy)

PRINCIPAL
PRINCIPAL
MEKAPATI RAJAMOHAN REDDY
INSTITUTE OF TECHNOLOGY AND SCIENCE
UDAYAGIRI-524 226, Nellore Dist., A.P.

आयकर विभाग



भारत सरकार

INCOME TAX DEPARTMENT

GOVT. OF INDIA

सत्यमेव जयते

PEDDIREDDY VENKATESWARA REDDY



VENKATARAMI REDDY PEDDIREDDY

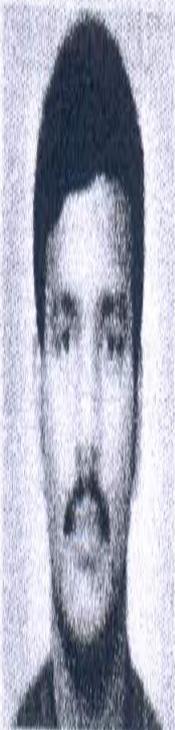
01/11/1987

Permanent Account Number

BFFPPP4796B

P. Venkateswara Reddy

Signature



02032010

इस कार्ड के खोने / पाने पर कृपया सूचित करें / लौटाएं :

आयकर पैन सेवा इकाई, एन एस डी एल

तीसरी मंजिल, सफायर चेंबर्स,

बानेर टेलिफोन एक्सचेंज के नजदीक,

बानेर, पुना - 411 045

*If this card is lost / someone's lost card is found,
please inform / return to :*

Income Tax PAN Services Unit, NSDL

3rd Floor, Sapphire Chambers,

Near Baner Telephone Exchange,

Baner, Pune - 411 045

Tel: 91-20-2721 8080, Fax: 91-20-2721 8081

e-mail: tininfo@nsdl.co.in



INDIAN UNION DRIVING LICENCE
ANDHRA PRADESH

AP32620140000640

VENKATESWARARAJU EDDY P

VENKATESWARARAJU EDDY P



BRAHMANAVARAM

JALADANKI

JALADANKI

NELLORE

सत्यमेव जयते



Signature

Issued On: 25/02/2014

Signature
UNIT OFFICE KAVALI

Non Transport

Light Motor Vehicle Non Transport, Motor Cycle
With Gear

Date of Validity

24/02/2034

Transport

Date of Validity

Badge No.

Reference No.

AP32620140000640

Original LA.

UNIT OFFICE KAVALI

Date of First Issue

25/02/2014

Date of Birth

01/11/1987

Blood Group

D138392/12



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11. Whether the student is in receipt of any scholarship (Nature of scholarship to be specified) : -
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13. Conduct : good
14. Signature of Head of the Institution :



Checked By

Principal
QUBA COLLEGE OF ENGG. & TECH.
VENKATACHALAM - 524 320
N.T.S.R. Nellore Dist. (A.P.)

ANNEXURE-I

CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED

Certified that Mr./Ms./Mrs. P. VENKATESWARA REDDY is employed as ASSISTANT PROFESSOR (Designation) in the Computer Science & Engineering (Department/Division Name) of Mekapati Rajamohan Reddy Institute Of Technology & Science (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: 00/00/00

Signature of the Head of Organization with office seal

PRINCIPAL
Mekapati Rajamohan Reddy Institute of Technology & Science
UDAYAGIRI-524 226
ANDHRA PRADESH

