

**ENUGANTI PAVAN KUMAR**

PhD Computer Science, 2020

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M.E(CS,BITS GOA) CGPA: 8.83(2020)



ACADEMIC DETAILS					
COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
UG	Computer Science & Engineering	GITAM UNIVERSITY	GITAM UNIVERSITY	9.18 CGPA	2016
CLASS XII		NARAYANA COLLEGE	BOARD OF INTERMEDIATE EDUCATION,A.P	93.9 %	2012
CLASS X		KRISHANA VENI TALENT SCHOOL	SECONDARY BOARD OF EDUCATION ,A.P	92.7 %	2010

**Projects**

<p><b>Backpropagation in spiking neural network - Machine Learning</b> <span style="float: right;"><b>Jan 2020 - Present</b></span></p> <p>Due to Non-differentiable Nature of spiking neurons, it is not possible to apply Gradient descent algorithm. However there is a method where they proposed back-propagation in spiking neurons. Now I thought of Applying a specific Randomized error propagation instead of propagating all the errors to neurons to reduce computation cost which is generally very heavy, which is an ongoing work.</p>
<p><b>Security protocol analysis using BAN Logic and AVISPA Tool - Network security</b> <span style="float: right;"><b>Feb 2019 - May 2019</b></span></p> <p>If a security protocol has design deficiency, then it is more dangerous if an attacker finds a loop hole in that design. He will attack the design instead of focusing on cryptographic elements.so using BAN Logic and AVISPA we can find the design deficiencies in the protocol and so we can improve the design.</p>
<p><b>Security in vehicular Ad-Hoc networks - Network security</b> <span style="float: right;"><b>Jan 2019 - May 2019</b></span></p> <p>In this main objective is to develop a scheme for security in VANET's and we designed Computationally efficient batch authentication scheme which will be used to authenticate batch of vehicles. Vehicles can be authenticated anonymously without revealing its identity.</p>

**Work Experience**

<p><b>DEVELOPER, Tata Consultancy Services</b> <span style="float: right;"><b>Jun 2016 - May 2017</b></span></p> <p>Assistant System Engineer-Trainee in Grade Y. I am part of the application development and maintenance project in Saudi Telecom Project in TCS.</p>
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**POSITION OF RESPONSIBILITY**

<p><b>Worked as Teaching Assistant for C programming in BITS - BITS Pilani Goa</b> <span style="float: right;"><b>Jan 2019 - Aug 2019</b></span></p> <ul style="list-style-type: none"> <li>◦ As part of C programming TA, we used to conduct Lab sessions for the students in the college and we used to take the evaluation of the students daily, by giving them some programs</li> <li>◦ we used conduct mid semester and Final semester exams for the students and evaluate that lab session.</li> </ul>
<p><b>Worked as Teaching Assistant for operating systems in BITS - BITS Pilani GOA</b> <span style="float: right;"><b>Aug 2018 - Nov 2018</b></span></p> <ul style="list-style-type: none"> <li>◦ As part Operating Systems TA,I used to give the tutorials to the students on the operating system concepts.</li> <li>◦ I used to help,to set and correct their Quiz, mid semester and Final semester papers for that semester.</li> </ul>

**Others**

<b>Technical Proficiency</b>	C Programming, C++ Language, Java, Data Structures, Algorithms, Algorithm Design, DBMS, Operating Systems, Computer Networking, Python
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CERTIFICATIONS		
CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
<b>INTRODUCTION TO PROGRAMMING C</b>	IIT KANPUR	It was a online course conducted by IIT Kanpur where we have programming assignments followed by offline Test in specific test centers given by the Examination Committee.
<b>Deep learning</b>	Coursera Andrew ng	Coursera's Deep Learning Specialization by Andrew ng

#### Text book readings

1. Reinforcement Learning by Richard S.Sutton and Andrew G. Barto
2. Neuronal Dynamics From single neuron to networks and model of cognition by Wulfram gerstner,Werner M.Kistler,Richard Naud,and Liam Paninski