

## KOTNI JAYA NAGA RAMYA

Dr. No. 55-18-9, LIG 65,  
APHB Colony,  
Visakhapatnam - 530022,  
Andhra Pradesh, India.

Mobile: +91 9581730000  
Email: k.ramya526@gmail.com



### SUMMARY

A passionate educator with 1+ years of experience teaching computer science subjects to undergraduate students. Skilled at delivering lessons to facilitate the learning of complex concepts while encouraging active participation during group activities. Committed to implementing the highest standards of instruction in helping each student achieve success in meeting or exceeding the academic standards.

### TEACHING EXPERIENCE

*Lecturer* **Dept. of CSE, GITAM University**, Visakhapatnam, Andhra Pradesh.

*Jul 2017 to Apr 2018*

*Jun 2018 to Oct 2018*

- ~ Subjects taught include **C++** and **Operating Systems**.
- ~ Nominated as the **Faculty Coordinator for GUSAC** (GITAM University Science and Activity Centre) to guide the students who were competing at national level.

### EDUCATIONAL QUALIFICATIONS

- |      |   |
|------|---|
| 2016 | <b>Andhra University</b> , Visakhapatnam, Andhra Pradesh.<br><b>M.Tech Computer Science and Technology</b><br>(Awarded with <b>8.52 CGPA</b> )                          |
| 2012 | <b>Dadi Institute of Engineering &amp; Technology</b> , Anakapalli, Andhra Pradesh.<br><b>B.Tech Computer Science and Engineering</b><br>(Awarded with <b>77.64 %</b> ) |
| 2008 | <b>Sai Kulwanth Junior College</b> , Anakapalli, Andhra Pradesh.<br><b>Intermediate</b> (XI & XII grades) (Awarded with <b>93.7 %</b> )                                 |
| 2006 | <b>Vasavi Bala Vihar</b> , Anakapalli, Andhra Pradesh.<br><b>State Secondary Certificate</b> (SSC) (Awarded with <b>86.5 %</b> )  |

### ACADEMIC PROJECTS

#### *Under Graduation*

- ~ **Project Title: “Design of New Hill Cipher Algorithm for Image Encryption”** - In our proposed system we use an Involutory Key Matrix for Encryption. The Objective of the proposed system is to overcome the drawback of using a random key matrix in Hill Cipher Algorithm for Encryption, where we may not be able to decrypt the encrypted message, if the key matrix is not invertible. Also, the computational complexity can be reduced by avoiding the process of finding inverse of the matrix at the time of Decryption, as we use Involutory Key Matrix for Encryption. Using this Key Matrix, we encrypted grayscale as well as colour images.

## ***Post Graduation***

- ~ **Project Title: “Anomaly Detection in Sensor Data using Unsupervised Machine Learning”** - Pervasive sensing is one of the most prominent technologies being adapted by current process industry. Every process industry is highly equipped with wireless sensors for process monitoring in which locations human intervention need to be limited. Thus, major challenge with these numerous sensors is store and analyses large volume of sensor data stream. This project focus on sensor data analysis along with anomaly detection specific to process sector because the placement and nature of the data generated from these sensors follows a specific pattern during process flow. This data is more structured unlike other type of big data in which data is more unstructured. There is no assurance that any single algorithm can produce optimized results. Hence, this project is presenting a generic frame works with ensemble of methods such as probability, statistics and Clustering.

## **PUBLICATIONS / WORKSHOPS / PAPER PRESENTATIONS / FDP**

### ***Publications***

- ~ **“Anomaly Detection in Sensor Data using Unsupervised Machine Learning”** in International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 5, Issue 11, November 2016.

### ***Workshops***

- ~ Participated in two-day national workshop on **“Advances in Web Mining and Big Data”** organised by Department of Computer Science and Systems Engineering, Andhra University, Visakhapatnam, during 18<sup>th</sup> -19<sup>th</sup> December 2014.

### ***Paper Presentations***

- ~ Presented a paper on **“Digital Signature”** in ACUMEN organised by Department of Computer Science and Engineering, Dadi Institute of Engineering and Technology, Anakapalli, in August 2010.

### ***Faculty Development Programmes***

- ~ Participated in the MeitY, Govt. of India sponsored one-week Faculty Development Programme (FDP) on **“Applied Cryptography”** organised by E & ICT Academy, National Institute of Technology (NIT), Warangal, at GITAM University, Visakhapatnam, during 27<sup>th</sup> April - 2<sup>nd</sup> May 2018.

## **TECHNICAL SKILLS**

- ~ Programming Languages: C, C++, Java
- ~ DBMS: Oracle
- ~ Web Technologies: HTML

## **PERSONAL PROFILE**

Date of Birth : 24/11/1990  
Gender : Female  
Languages Known : English, Telugu

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

Place: Visakhapatnam

Date:

**(Kotni Jaya Naga Ramya)**