DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

INVITATION

Management, Principal, Staff and Students of

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
(Autonomous), VIJAYAWADA

Request your gracious presence at the One Day Seminar on

Data Analytics and Remote Sensing Applications

at 10.00 AM on Monday 24th Feb, 2020

In the M. Tech Lab @ CSE Department

Resource Person

Dr. Jagalingam P

Sr. Assistant Professor, School of Computer Science and Engineering,

VIT Vellore

Distinguished Guests

Sri N. Venkateswarlu
President, Siddhartha Academy of General and Technical Education.

Sri P. Lakshmana Rao
Secretary, Siddhartha Academy of General and Technical Education.

Sri M. Rajaiah
Vice-President, SAGTE & Convener of the College.

Dr. A. V. Ratna Prasad
Principal, V.R. Siddhartha Engineering College, Vijayawada

Dr. N. N. Sastry
Dean, R&D

Dr. B. Panduranga Rao
Dean, Student Affairs

have kindly consented to be the Distinguished Guests

Coordinator
Dr. S. Vasavi,
Professor, CSE Dept

Convener
Dr. D. Rajeswara Rao
Professor & Head, Dept of CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING:: VRSEC

Vijayawada,
Dt: 25/02/2020.

To,
The Principal,
VR Siddhartha Engineering College,
VRSEC

Respected Sir,

Sub: **Request to sanction an amount of Rs. 3000/- towards the honorarium for resource person Dr. Jagalingam P -Reg.**

This is to bring to your kind notice that, with your prior permission we have arranged a seminar for M. Tech students on **"Data Analytics and Remote Sensing Applications"** by Dr. Jagalingam P, Sr. Asst. Prof, School of Computer Science and Engineering, VIT Vellore on 24-02-2020. In this regard, we request your kindself to sanction an amount of **Rs. 3000/-** as a honorarium for the resource person. Here with we are attaching the details of the seminar and permission letter for your kund perusal.

Thanking You,

Yours Faithfully,

Dr. D. Rajeswara Rao
Head:: CSE Dept

Enclosures: ***1) Voucher***
2) Permission letter
3) Registration sheets and Report

PROFESSOR & HEAD
Dept of Computer Science Engineering
V.R.Siddhartha Engineering College
VIJAYAWADA-520 007

Dr. Jagalingam Pushparaj

Assistant professor (senior)
School of computer science and engineering
Vellore Institute of Technology (VIT),Vellore, Tamilnadu.
India

Date of Birth : 15.09.1986
91-88-67824564 | 91-90-80012798 lingam.jai10@gmail.com

EDUCATION

Ph.D (Full Time) - NITK	Title: Pan-sharpening the spatial resolution of multispectral imagery for the assessment of near-shore bathymetry		**2018**
M.Tech	Remote Sensing (8.8, CGPA) First Class with Distinction	**Anna University, Chennai**	**2012**
B.E	Computer Science and Engineering (71%), First class	**Anna University, Chennai**	**2009**

PROFESSIONAL EXPERIENCE

Period	Institution/ Organization served	Post held/ Nature of Job
02.05.2019 to Till date	Vellore Institute of Technology, Vellore campus	Assistant Professor (Senior)
20.01.2018 to 04.04.2019	KL University, Vijayawada, Andhra Pradesh	Associate Professor
30.10.2017 to 08.01.2018	Basha Research Corporation (BRCORP), Hyderabad, Telangana	R&D Manager
15.06.2017 to 21.10.2017	KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu	Assistant Professor (SL.G)
27.12. 2015 to 12.04.2017	National Institute of Technology Karnataka (NITK)	Senior Research Fellow
26.12. 2013 to 26.12.2015	National Institute of Technology Karnataka (NITK)	Junior Research Fellow
26.06.2012 to 14.11.2013	Christ the King Engineering College, Coimbatore, Tamilnadu	Assistant Professor

PUBLICATIONS - CONFERENCES

- Jagalingam P, Arkal Vittal Hegde "Building Extraction from Quickbird-2 Imagery", 7th International Engineering Symposium (IES 2017), 1-3 March 2017, C1-6-1 to C1-6-5, Kumamoto University, Japan.
- Jagalingam P, Arkal Vittal Hegde "Improving the spatial resolution of multispectral imagery," 10th International Symposium on Lowland Technology, September 15-17, 2016 at Mangalore, India, 342-346.
- Jagalingam P, Arkal Vittal Hegde "Pan-sharpening the spatial resolution of LISS IV imagery using Cartosat-1 Imagery," 6th International Engineering Symposium (IES 2016), 2-4 March 2016, C3-5-1 to C3-5-6, Kumamoto University, Japan.
- Jagalingam P, Arkal Vittal Hegde "Pixel level image image fusion – A review on various techniques", In : Proceedings of Proceedings of the 3rd World Conference on Applied Sciences, Engineering and Technology, 27-29 September 2014, Kathmandu, Nepal, ISBN 13: 978-81-930222-0-7, 521-528.

CITATION & ID DETAILS

- Scopus Id – 57193551482, h-index - 03
- Google scholar Id – Lingam.jai10@gmail.com, h-index – 04, i10-index - 02
- Researcher ID – U-5947-2018
- Orchid ID - 0000-0002-0748-1631

AREAS OF RESEARCH INTEREST

- Quality Metrics
- Image Processing
- Remote sensing application in Coastal
- Image fusion
- Wetland
- Bathymetry

PhD Guidance (*On Going-4*)

- Name : Surya Kiran (FT)

  Date of registration: 07-01-2019
- Name: Mrs.Vanga Udaya Bhanu

  Date of registration: 12-07-2018

  Research area : Image Processing
- Name: Mr. Vajja Phaneendra

GIS software	: ArcGIS, Grass GIS.
Survey Instruments	: GPS, Total Station, DGPS.
Packages	: Matlab, Map source, Global mapper, MS office, Visual Basic.

SUBJECTS HANDELED

- Operating system
- Remote sensing and GIS
- Software Engineering
- Environmental Science and Engineering
- Python Programming

MASSIVA OPEN ONLINE COURSES (MOOCs)

- Advanced Operating Systems - Udacity, Delivered by Georgia Institute of Technology
- Real Time Operating Systems – NPTEL, Delivered by Prof. Rajib Mall, IITK

LETTER OF APPRECIATION

- Actively contributed as a co-ordinator during "Comprehensive Academic Audit" (2015-2016), on 28th September, 2015, AMD-NITK.
- Actively contributed for ogranising the workshop on "Tsunami threat and its mitigation along indian coast", 2nd November, 2015, AMD-NITK
- Actively involved while organizing International Conference on Water Resources, Coastal and Ocean Engineering, 12-14 March, 2015, NITK.

PEER REVIEWER (JOURNAL/CONFERENCE)

International Journals

- Journal of Computer Science, Science Publication, USA
- International Journal of Imaging Systems and Technology, Wiley
- International Journal of Image and Data fusion, T&F
- Applied Geomatics, Springer
- Journal of Electronic Imaging, SPIE
- Optical Engineering, SPIE
- Cogent engineering, T&F.

- 8th International conference on Asia and Pacific coast (APAC), 2015, 7-10, September, IIT Madras
- International conference on water resources, coastal and ocean engineering (ICWRCOE), 2015, 12-14, March, NITK.
- 5th Indian National Conference on Harbour and Ocean Engineering, 5-7 February 2014, CSIR-NIO, Goa.
- 3rd World conference on Applied sciences, Engineering and Technology (WCSET), 2014, 27-29, September, Nepal
- , 2nd World conference on Applied sciences, Engineering and Technology (WCSET), 2013, 08-09, March, Hyderabad.

WORKSHOPS/SEMINARS ATTENDED

- Workshop on "Faculty skill enhancement", 13th to 15th February, 2018, KL University, Vijayawada, Andhra Pradesh, India.
- Workshop on "Induction program" 8th to 10th February, 2018, KL University, Vijayawada, Andhra Pradesh, India.
- Workshop on "Green construction techniques for climate resilient affordable housing", 03rd to 04th October, 2017, KPRIET, Coimbatore, India.
- Workshop on "Advancement & Challenges in water supply system", 11th to 12th August 2017, KPRIET, Coimbatore, India.
- , Workshop on "Microwave remote sensing", 17th to 18th October, 2016, AMD-NITK, India
- Workshop on "Coastal hydrodynamics and modelling", 7th October, 2016, AMD-NITK, India
- Workshop on Indo-Australian "Marine renewable energy", April 4-5, 2016, DOE-IIT Madras, India and Swinburne university of Technology, Australia.
- Workshop on "infocus", 9th January, 2016, AMD - NITK
- Workshop on Tsunami Threat and its Mitigation along Indian Coast, 2 November, 2015, AMD – NITK.
- Short Course on Mathematical Morphology and its Applications in Image Processing,July14-24,2015, ECE - NITK
- National Workshop on Linux and FOSS, 9-10 May, 2015, MACS - NITK.
- Workshop on Recent trends in system in system application as applied to civil engineering, 9 Jan, 2015, AMD - NITK.
- Workshop on Climate Change and Coastal Processes, 4 February 2014, CSIR-NIO, Goa.
- Workshop on Netural Networks Approach for Speech Tasks, 28 Feb – 1 March, NITK, 2014.

- Sahhyadri College of Engineering and Management, Mangalore
- Karavali Institute of Technology, Mangalore
- Srinivas Engineering College, Mangalore

COUNTRY VISITED

Japan
Nepal

ACADEMIC ACTIVITES

Contributed as a Co-ordinator in the Comprehensive Academic Audit (2015-16) on 28th September, 2015, NITK, Surathkal.

Contributed as a Co-ordinator in the National Board of Accreditation, visited during 23-24 September, 2016.

Date:

Place: Vellore

Jagalingam P

Signature

References:

Prof. Katta Venkataramana
Dean Academic
National Institute of technology Karnataka
ven.nitk@gmail.com

Prof. G.S Dwarakish
Applied mechanics and hydraulics
National Institute of technology Karnataka
dwaraki.gs@gmail.com

Prof. S.A. Sannasiraj
Head of the department
Department of Ocean Engineering
Indian Institute of Technology Madras
sasraj@iitm.ac.in

Prof. Arkal Vittal Hegde
Applied mechanics and hydraulics
National Institute of technology Karnataka
arkalvittal@gmail.com

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

One Day Seminar on

"Data Analytics and Remote Sensing Applications"

24th February, 2020

S.No	Name	Roll Number	Email ID	Mobile Number	Signature
1.	Morla Likhatha	198W1D5817	likhithamorla9@gmail.com	9603066364	M. Likhitha
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17.	V. Durga Nagamalleswara Rao	198W1D5820	[illegible]	7306079464	
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19.	M. Sailendra Raju	198W1D5814	shinysailendra@gmail.com	8688270663	M Sailendra Raju
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21.					
22.					
23.					
24.					
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Seminar on "Data Analytics and Remote Sensing Applications"
Report

24-02-2020

Naïve Bayes Classification:

Naive Bayes classifiers are a collection of classification algorithms based on **Bayes' Theorem**. It is not a single algorithm but a family of algorithms where all of them share a common principle, i.e. every pair of features being classified is independent of each other.

Naïve Bayes classifiers are highly scalable, requiring a number of parameters linear in the number of variables (features/predictors) in a learning problem. Maximum-likelihood training can be done by evaluating a closed-form expression, which takes linear time, rather than by expensive iterative approximation as used for many other types of classifiers.

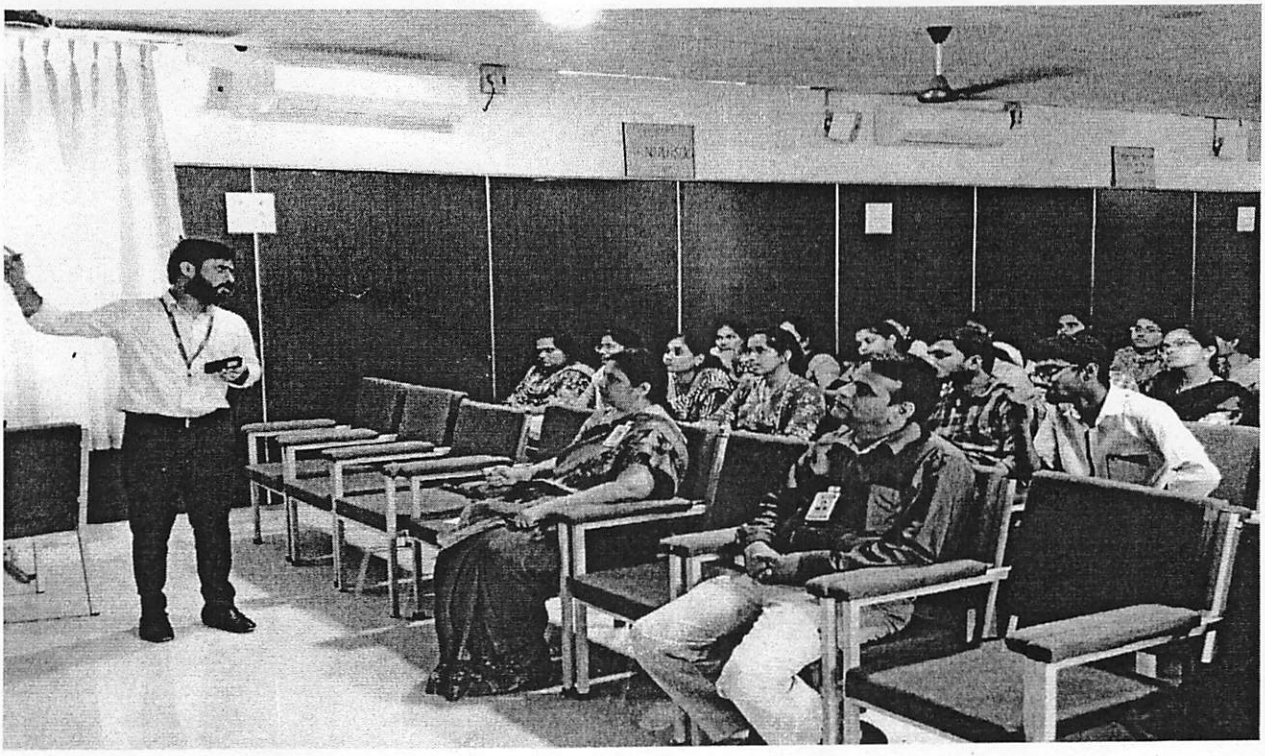
Applications of Natural Language Processing

- Text Classification and Categorization
- Named Entity Recognition (NER)
- Part-of-Speech Tagging
- Semantic Parsing and Question Answering
- Paraphrase Detection
- Language Generation and Multi-document Summarization
- Machine Translation
- Speech Recognition
- Character Recognition
- Spell Checking

Remote Sensing

Remote sensing is the science and technology by which the properties of specified objects. area, or phenomenon can be identified, measured, and analyzed without direct contact with them in order to make useful decisions. The applications of remote sensing include land-use mapping, weather forecasting, environmental study, natural hazards study, and resource exploration.

PROFESSOR & HEAD
Dept. of Computer Science Engineering



PROFESSOR & HEAD
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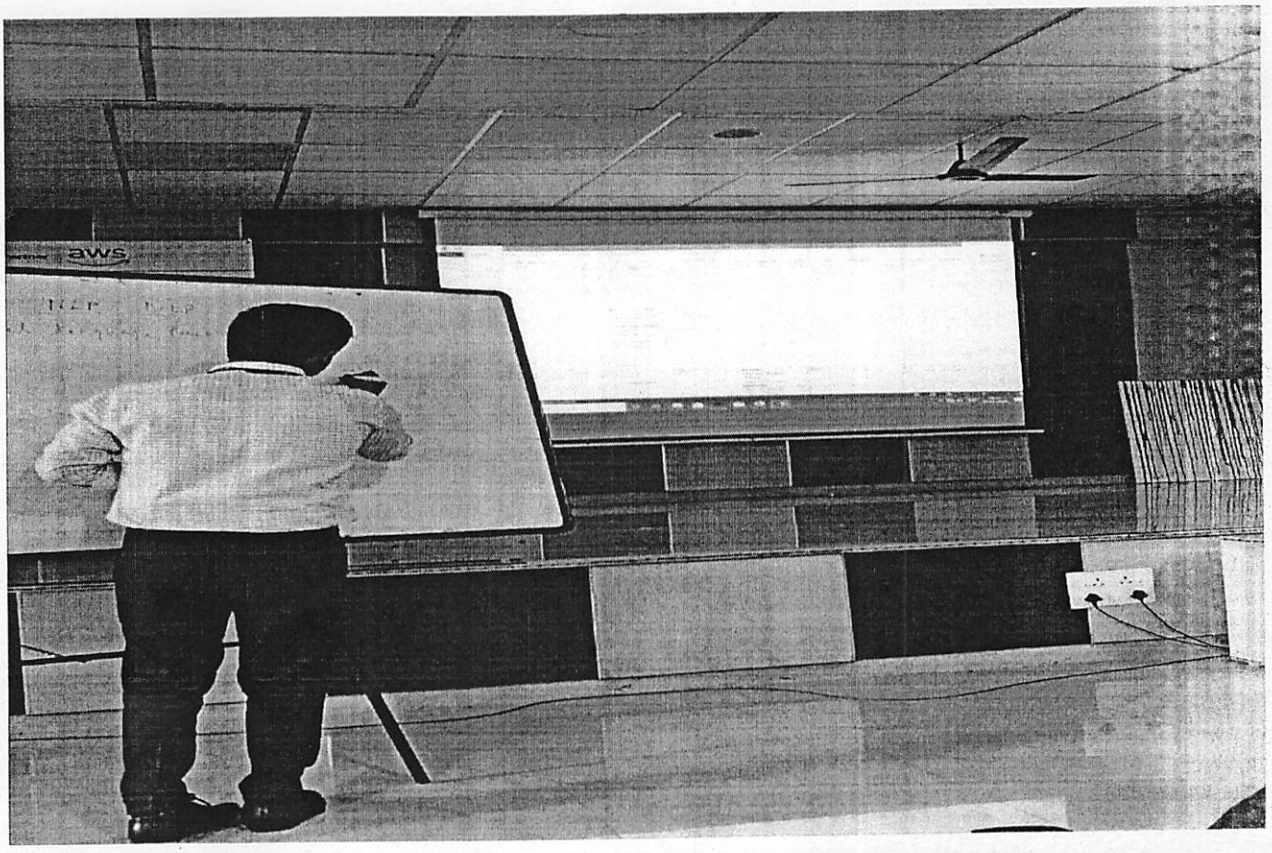
VIJAYAWADA-520 007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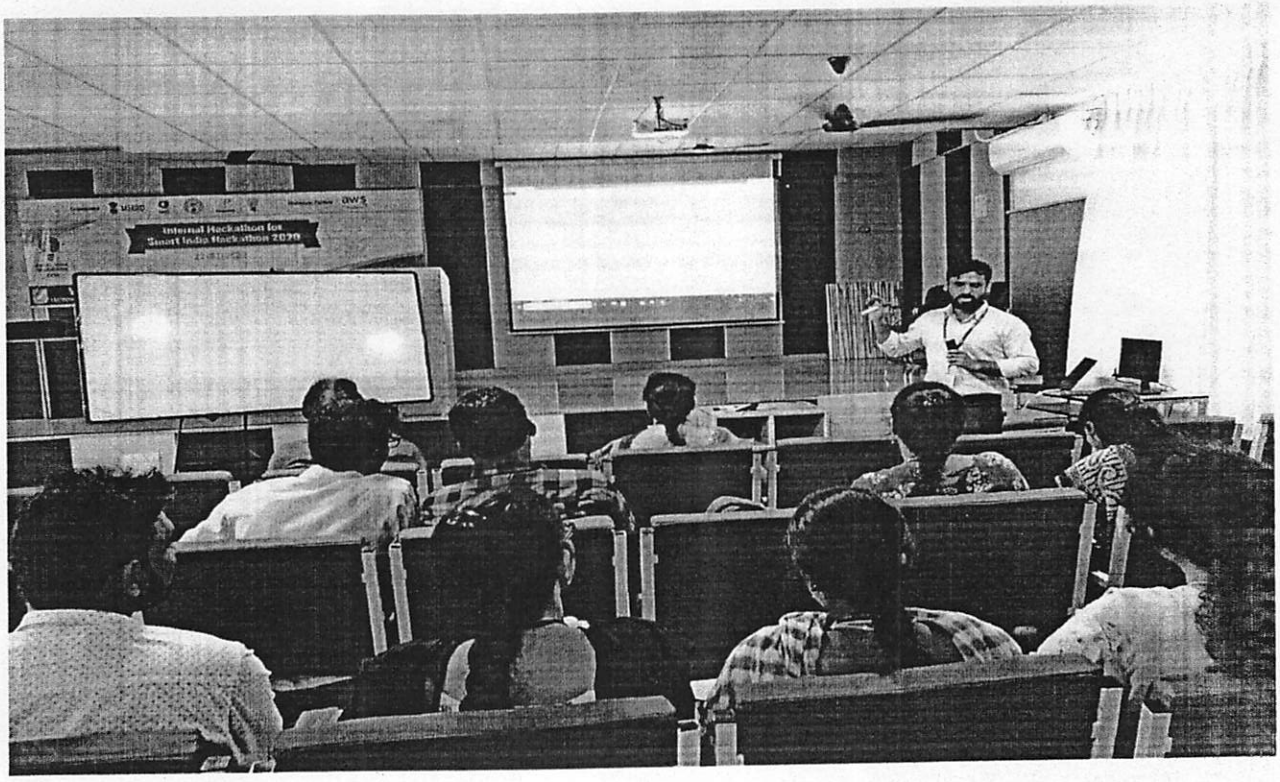
Internal Hackathon for
Smart India Hackathon 2020

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Objectives of the Seminar:

- Business Analytics and its application in various domains
- Decision making using Business Analytics
- Time Series data analytics & its strategic implications
- Time Series analytics using predefined statistical mode
- To understand the principles, applications, trends, and pertinent issues of geographical information systems and sciences, including remote sensing (RS), Photogrammetry, cartography, and global positioning systems (GPS).
- To provide learning and teaching experiences with real world problems.
- To develop applications of environmental remote sensing and GIS which can directly enhance service delivery on land use management, ground water management/prospects, agriculture, forestry, food and water security, disaster management, etc.

Outcome

- As it is the seminar for M.Tech first years, students got benefited and they are implementing all the above said applications in their Major projects. They gained knowledge about GIS & Remote Sensing techniques. They improved the skill for solving the engineering problems related to GIS & Remote Sensing.