Vishnu Institute of Technology is permanently affiliated to JNTUK, Kakinada. The mission of the department is to advance and enhance computer science engineering fundamentals to build the intellectual capital of students. The CSE Department endeavors to be an important resource centre for the development of computing systems and applications.

The department was established in the academic year 2008-09 with an annual intake of 66. It offers 4 year B.Tech programme. This program affiliated to JNTU Kakinada & approved by NBA & AICTE. The annual intake of CSE branch was increased to 180 from the academic year 2014-15. The department offers M.Tech in Computer Science & Engineering from the academic year: 2012-13. The department has number of well equipped Laboratories and provides excellent facilities for learning.

INSIDE...

________ Faculty Activities
________ Hands on experience on Python
________ A Path to research in Data mining
________ Student Activities
________ Real World Facts
________ Short Poems
________ Arts by Students
1. Speaker : Mr. K. Narasimha Rao  
Title : A Genetic Algorithm for Discovering Classification Rules in Data Mining  
Date : 02-12-2015

2. Speaker : Mrs. B. Sridevi  
Title : A density-based algorithm for discovering clusters in large spatial databases  
Date : 09-12-2015

3. Speaker : Mr. M. Srinadh Swamy  
Title : Research Directions for IOT  
Date : 09-12-2015

4. Speaker : Mrs. L. Divya  
Title : Improving the Network lifetime of MANETs through Cooperative MAC Protocol Design  
Date : 16-12-2015
Mr. K. Bhargav Kiran, Assistant Professor of CSE had given a brief note about Python, an emerging programming language on 04/12/2015. He discussed about the importance and working of Python programming language. He shows how to install the package and the working environment of Python in linux operating system. He makes clear about working with statements, control flow, expressions and structures in this language.

One day Faculty Development Program on IBM Bluemix

The Departments of CSE & IT organized one day Faculty Development Program (FDP) on IBM Bluemix on 23-12-15. Faculty members from various institutions participated in the program. The Resource Person Mr.Sachin from IBM-Bangalore explained the participants about the advantages of using IBM BlueMix as a cloud computing platform and demonstrated deployment of an app in IBM Bluemix.
**RESEARCH ACTIVITIES. . .**

**. . . WORKSHOPS ATTENDED**

Dr. K. Hima Bindu attended "Data Analytics" A master trainer's course organized by APSSDC in association with NASSCOM from 7\textsuperscript{th} Dec to 11\textsuperscript{th} December at C.R. Rao Institute, UoH, Hyderabad. She learned R programming language in this context. This course has to be taught to students of B.Tech III year II Semester.

Mr. T. Vamsi Krishna attended Workshop on Image and Speech Processing, Saturday, 12\textsuperscript{th} December, 2015. Organized by Centre of Excellence in Signal Processing (CESP), International Institute of Information Technology (IIIT), Hyderabad.

**. . . CONFERENCES ATTENDED**

Dr. K. Hima Bindu presented a paper entitled "Coefficient of Variation based Decision Tree for Fuzzy Classification" in FANCCO'15, International Conference on Fuzzy and Neural Computing (FANCCO 2015) organized by The Institute for Development and Research in Banking Technology (IDRBT), Hyderabad, India during December 17\textsuperscript{th} - 19\textsuperscript{th} 2015. This paper published by Springer, Volume 415 of the series Advances in Intelligent Systems and Computing, pp 139-149.

S. Mahaboob Hussain and Prathyusha Kanakam presented two papers entitled “Steping Towards a Semantic Web Search Engine for Accurate Outcomes in Favor of User Queries- Using RDF and ontology technologies” and “Electronic Noses: Forestalling Fire Disasters-A technique to prevent false fire alarms and fatal casualties” in 2015 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC). These papers will be published by IEEE Xplore and indexed in SCOPUS in addition to Google, INSPEC, Thomson Reuters' Web of Science.
Dr. D. Suryanarayana, Dr. Sumit Gupta, Mr. S Mahaboob Hussain and Ms. Prathyusha Kanakam received "THE BEST PAPER AWARD" from 2015 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) for the research paper "Stepping Towards a Semantic Web Search Engine for Accurate Outcomes in Favor of User Queries- Using RDF and ontology technologies" held at Vickram college of engineering, Madurai, Tamilnadu, December 10th - 12th, 2015.

**TIPS**

G. Chinni Santhi  
Faculty of CSE

Send files upto 1GB for free from Pando  
(https://pando.com/)  
That’s HUGE!

Learn how to make pretty much anything at VideoJug  
(http://www.videojug.com/)
Some good research topics in data mining...!

As per me Data Mining is field which is being applied in all domains now a day.

- Signal processing
- Social media analytics
- Medical science
- Government domain
- Finance analysis (Stock prediction, customer behavior prediction etc)

In every domain people use Data mining as per their requirement. So as per domain requirement there can be different research topics.

1. **Text summarization** - As the problem of information overload has grown, and as the quantity of data has increased, so has interest in automatic summarization.

Many news oriented applications are relying on text summarization. This is nice paper for it. Visit [www.stanford.edu](http://www.stanford.edu)
2. **Title recommendation, Topic modelling** - To predict the title for articles, websites etc. It needs to create learning based system using classification algorithms. In machine learning and natural language processing, a topic model is a type of statistical model for discovering the abstract "topics" that occur in a collection of documents.

3. **Semantic correction system** - Little complex but interesting. Generally retried text faces semantic error, hence leads to wrong result. Applying this method as pre-processing leads to better outcomes.

4. **Syntactic correction system** - Much needed now a days. Non-English speakers create much syntactical error. It can also be used as pre-processing job in many projects. So you algorithm should automatically detect such errors and suggest correct grammar.

5. **Search engine for wikipedia** - Wikipedia data available as dump file. Check dbpedia for reference. Apply indexing techniques and build small kinda SE for wiki pages. As wikipedia already provides this functionality but you can work on better user experience, result optimization.

6. **Twitter tweets classifier** - Pretty easy and interesting too. Creating learning system for various categories kinda Sports, entertainment, business, politics, hollywood etc. Train the classifier (naive bayes, SVM) and predict the category for incoming tweets.

7. **Sentiment analysis for twitter, review, conversations** - There are few packages available in R which can help to perform this job. One needs to add few additional features on top of that to make more intuitive. NLTK, Stanford, word2vect are also good open source tools for the same.

8. **Spam mail detection** - Again learning based classification system. Train the classifier using users pre-selected spam mail which would be able to classify new upcoming mails. If uses mark new mail as spam, then retrain (may be some other better option).

9. **Sarcasms detection** - This can be very interesting one. In sentiment analysis we identify user’s sentiment regarding something’s, here we identify sarcasm expressed by users. Check out Page on psu.edu - Sarcasm detection on twitter
10. **Classifying Fake Users, Classifying insincere posts** - Mail service providers like Gmail, Yahoo etc works a lot on keeping their users away from spam mail and spam users. Also on online discussion forums admin are much willing to auto delete spam-fake-irrelevant posts.

11. **Fraud detection** - Some users on social media intentionally creates type about particular products, stock to let it be up. Identifying such fraudulent users and activity is also one of the challenging tasks.

12. **Market Analysis** - CocaCola continually hires 3rd party companies to process data related to them from Twitter and Facebook. They launch creative campaigns and want to constantly monitor if the campaign is being accepted by the audience. Many companies try to understand the flaws in their processes by trying to understand what their users/customers are saying about their products or services. Analysts are automating their work by building tools that read the news and try to predict the market situations for the next day. Sentiment Analysis is still one of the hottest applications (and yours truly has been engaged in research on Sentiment Analysis for two years.) You can read about Risk Analysis and Predictive Analysis to learn about latest concentration and advancements in these areas.

13. **Robotics** - The robots are not simply pre-programmed toys anymore. They try to learn how to do their work from their previous experiences. Genetic Algorithms to Reinforcement Learning, there are many areas of Computer Science that are trying to solve these problems from multiple perspectives. We would love to sit in the car that drives itself if it proves that it can think on the fly. We want missiles to hit the target despite being in an unknown land with totally different climate and unexpectedly high wind speeds.

14. **Manufacturing, Automotive and Aviation** - Concentration is on improving manufacturing processes to optimize time and material, and ensure high quality production in the assembly line. This extends beyond the factory and on the road when modern braking systems knows how much pressure should be applied on each tyre to stop your car in the most comfortable way. Air and Space industry is working on developing aircraft performance models.
22 students of III year B.Tech CSE, attended The Geek Angel's Hackday - Women’s Hackthon from 26th Dec 2015 – 28th Dec 2015 (3 Days) at Progress Software India, Hyderabad.

It’s a great weekend to our students that they got lot of experience and knowledge that how to learn, invent, and create the future.

There is a 24-hour event to work collaboratively to design a website, game, or mobile app that addresses a selected real world challenge. Students form as 6 people in a team. Prior to the event our teams designed plan, storyboard, and determine what they want to do and how they will go about building their solution. Projects judged in 4 categories: Appropriateness to Theme, User Experience & Functionality, Originality & Impact, and Technical Difficulty.

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KONY SERVICES

REAL WORLD FACTS

By
Ajay Maniram
II CSE-A

1. Only 8% of the world’s currency is physical money, the rest only exists on computers.

2. There was a computer worm that would gain access to Windows XP systems, download a patch from Microsoft to close the vulnerability that it used to infect the system, attempt to delete the infamous Blaster worm (if present) from the system, then delete itself.

3. The worst breach of U.S. military computers in
history happened when someone picked up a memory stick (infected by a foreign intelligence agency) they found in the parking lot and plugged it into their computer, which was attached to United States Central Command.

4. Investigators missed incriminating Google searches done on Casey Anthony’s computer – including “fool-proof suffocation [sic]” – because they checked her Internet Explorer history, but ignored Firefox.

5. In 1978, Apple Corps (owned by The Beatles) sued Apple Computer for trademark infringement. The case settled for $80,000 along with the condition that Apple Computer should not enter the music business, and Apple Corps agreed not to enter the computer business.

6. A computer as powerful as the human brain would be able to perform about 38 thousand trillion operations per second and hold about 3,584 terabytes of memory.

7. U.S. chose 00000000 as the password for its computer controls of nuclear tipped missiles for eight years.

8. Although 95% of mail is now sorted by computers, the U.S. Postal Service still employs clerks to decipher addresses that are too messy for the computers to understand. These clerks are expected to process 1,000 letters an hour, and upwards of 20% of them quit within the first 5 weeks.

9. The first entirely computer generated movie sequence in cinema history was the Genesis Device demonstration video in Star Trek II: The Wrath of Khan. The studio that made the scene would later become Pixar.

10. MIT has developed a computer software that can identify and distinguish a real smile from a smile of frustration.
HOW BEAUTIFUL THE WINTER IS . . .

By
Sravani
II B.Tech CSE – A

Feeling the breeze..
Watching the trees..
I am travelling..
But the weather is sooooo freezing..
A beautiful place..
Of awesome grace..
A wonderful clear winter night..
Time moves on, on and on..
Dazzling stars.. Shining moon..
One of the prettiest time in a year..
With this beauty and bliss..
Heart wish to sleep in deep..
How beautiful the winter is...!!
ARTS BY STUDENTS

ISUKAPATI RAM KUMAR, IV B.TECH, CSE