

SPECIAL POINTS OF INTEREST:

- Technology Trends in 2018
- Department Events
- Technical Interview questions
- Student Articles

INSIDE THIS ISSUE:

HOD Message 2

Technology Trends in 2018 2

Faculty Achievements 3

Students Achievements 4

Department Events 5

Technical Interview questions 6

Students Articles 7

Toppers list 8

About College

Vision & Mission

Vision

To be a center of academic excellence in engineering and management education, research and application of innovative methods to benefit the society with ethical values.

Mission

- To provide world class engineering education, encourage research and development.
- To develop innovative applications of technology and prepare to accept challenges globally.
- To mould the students career to become self reliant and socially responsible.



Sri. J.V. Krishna Rao HRA
(USA)
-Secretary
J.B. Educational Society

About Department

Vision

To meet the emerging trends in computer Science and Engineering, strive for self-reliance enabled through high end research by adapting a futuristic approach.

Mission

- To impart qualitative education, prepare students refurbish their latent talents and aspire for a pragmatic career in Computer Science and Engineering.
- To provide an ambiance to develop strategic areas of advance study with perception to foster industry centric education in computer science and Engineering.
- To Inculcate self-learning among students to make them self-reliant and socially responsible.



Dr Putti Srinivasa Rao. Phd
Hod Department of CSE

"People worry that computers will get too smart and take over the world, but the real problem is that they're too stupid and they've already taken over the world."

HOD Message

It's my immense pleasure to head the department of computer science and engineering. The department has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated faculty and learned faculty.

The objective of the department is to prepare students for successful career in industry, research and academics to meet the needs of growing technology.

"We are what our thoughts have made us. So take care about what you think. Always be a part of solution, don't be the part of problem. Always try to update your knowledge otherwise you will be outdated. If you want success do all things you are supposed to do then you need not search for shortcuts".

Technology trends in 2018

Data Science

Data Science in layman terms is a broad area where any professional or student can apply some statistical techniques and algorithms on the data and get some good insights about data which helps the organization to grow and serve the customers.

In Technical terms Data Science is just O.S.E.M.N are awesome as you think about it.

The OSEMN which I presented here is having a special meaning like

O- Obtaining the data

S- Scrubbing the data

E- Exploring the data

M- Modeling the data

N- Interpreting the data



**Data
Science**

As we know Data Science is vacuous without data so first phase is very important in order to do anything. After getting the data the story is not completed yet

60%-70% of our time as Data Scientists is spent at this phase which is cleaning of the data. Real world data is often fuzzy and we should make it clear in order to do analysis. After cleaning, Analysis is done on pristine data like finding patterns from visualizations with some statistical techniques. Modeling is nothing but applying the machine learning algorithms for the data. And then here comes the important one which is interpreting the data which is nothing but explaining the insights of the data which you got from applying analysis.

Last skill is very important to a data scientist without explaining the results which he got, everything done is simply adding water to the ocean.

-Dondapati Satwik (IV CSE B)

Faculty Achievements

- Mr **Abhay Kumar**, Associate professor, Department of CSE has published a paper on **Identification of Psychological Harassment via Digital Communication Media** in **International Journal of Computer Sciences and Engineering**.
- Dr **P Srinivasa Rao**, Professor, HOD Department of CSE has published a paper on **Security in Single Page Applications** in **1st International Conference On Advancements and Innovations in Engineering, Technology & Management (ICAIETM 2107)**.
- Mr **D Himagiri**, Assistant professor, Department of CSE, has published a paper on **Privacy Preserving Data Mining Using Random Decision Tree Frame Work** in **1st International Conference On Advancements and Innovations in Engineering, Technology & Management (ICAIETM 2107)**.
- Mr **M Naveen Babu**, Assistant professor, Department of CSE, has published a paper on **Privacy Preserving Data Mining Using Random Decision Tree Frame Work** in **1st International Conference On Advancements and Innovations in Engineering, Technology & Management (ICAIETM 2017)**.
- Mr **Abhay Kumar**, Associate professor, Department of CSE has published a paper on **A review on Congestion Control Approaches for Real-Time Streaming Application in the Internet** in **International Journal of Computer Science and Information Security**.
- Mr **Abhay Kumar**, Associate professor, Department of CSE has published a paper on **Speaker Recognition system for limited Speech Data Using High-Level Speaker Specific Features and Support Vector Machines** in **International Journal of Applied Engineering Research (IJAER)**.
- Mr **Abhay Kumar**, Associate professor, Department of CSE has published a paper on **Discovery of Online Persecution through Semantic Denoising Auto Encoder: A Survey** in **International Journal of Scientific Research (IJSR)**.
- Mr **A Ramesh Babu**, Associate professor, Department of CSE has published a paper on **Public-Key Encryption with key Exploration For Secure Distract Storage In Double Server** in **International Journal of Reviews on Recent Electronics and Computer Science**.
- Dr **P Srinivasa Rao**, Professor, HOD Department of CSE has done Review of Research ISSN: 2249-894X on **Performance improvement in Distributed Systems using Receiver initiated Algorithms** in **International level**.
- Dr **P Srinivasa Rao**, Professor, HOD Department of CSE has done Reviews of literature ISSN 2347-2723 on **Framework to minimize the communication overhead in Distributed Systems** in **International level**.
- Dr **P Srinivasa Rao**, Professor, HOD Department of CSE has done Reviews of literature ISSN 2347-2723 on **Distributed Job Scheduling with Priority Tasks** in **International level**.



*"Who you are
tomorrow begins
with always today"*

Student Achievements

Sports

- Sai Sri Harsha of Computer Science and Engineering bearing roll no: I467IA0569 has participated in state inter Engineering colleges tournaments-2018 (Cricket-MEN) held at KG Reddy Engineering college, Chilkur, Moinabad, Rangareddy dist. On date: 22nd Feb 2018 to 24th Feb 2018.
- Ch Dinesh Kumar of Computer Science and Engineering bearing roll no: I667IA0512 has participated in (Kabaddi-MEN) JNTUH Zone-C held at Malla Reddy Engineering college, Medchal, Hyderabad.
- Abhinav Jaiswal(I467IA0552), D.V.S Rohit(I467IA0550), K.Sanga Mithra (I467IA0593), Sai Hrudai(I567IA0551), of Computer Science and Engineering, has participated in (Basket Ball - MEN) JNTUH Zone-C held at Malla Reddy Engineering college, Medchal, Hyderabad.
- N Dayakar of Computer Science and Engineering bearing roll no: I467IA0596 has participated in Telangana langdi association Sr Nationals Championship held at Nipani, Belgaum, Karnataka.
- P Sai Murali (I467IA0565), Sai Sri Harsha (I467IA0569), of Computer Science and Engineering, has participated in (Badminton - MEN & WOMEN) 10th Indian Open Inter Engineering Collegiate Sports Fest-2018 held at VNR Vignan Jyothi Institute of Technology, Hyderabad.
- P Keerthi Teja (I567IA0591), Rushmitha (I567IA0506), of Computer Science and Engineering, has participated in (Throwball - WOMEN) 10th Indian Open Inter Engineering Collegiate Sports Fest-2018 held at VNR Vignan Jyothi Institute of Technology, Hyderabad.
- M Raghavender (I667IA0590), of Computer Science and Engineering, has participated in (Volleyball - MEN) 10th Indian Open Inter Engineering Collegiate Sports Fest-2018 held at VNR Vignan Jyothi Institute of Technology, Hyderabad.
- Ch Dinesh Kumar (I667IA0512), of Computer Science and Engineering, has participated in (Kabaddi - MEN) 10th Indian Open Inter Engineering Collegiate Sports Fest-2018 held at VNR Vignan Jyothi Institute of Technology, Hyderabad.
- Abhinav Jaiswal(I467IA0552), D.V.S Rohit(I467IA0550), K.Sanga Mithra (I467IA0593), Sai Hrudai(I567IA0551), of Computer Science and Engineering, has participated in (Basket Ball - MEN) 10th Indian Open Inter Engineering Collegiate Sports Fest-2018 held at VNR Vignan Jyothi Institute of Technology, Hyderabad.

Department Events

DELLEMC CENTER OF ACADEMIC EXCELLENCE



DELLEMC Centre of Academic Excellence and Institutional Membership certificates exchanged and **Data Science & Big**

Data Analytics lab inaugurated in the presence of J.V. Krishna Rao, Secretary, JB Institute of Engineering & Technology, Mr. Suresh Babu, Regional Head, ICT Academy and Mr. Amarnath, State Head, ICT Academy at JB Institute of Engineering & Technology, Hyderabad on 9th July 2018.

The Centre is for the benefit of the students and researchers to learn the latest technologies in Data Science and Big Data Analytics.

Effective Teaching methods & best practices

Today the profession of Engineering teaching has become quite challenging. Engineering teachers are expected effective teachers with industry interfacing skills. A teacher can “teach” all day long and cover an extensive amount of material, but if students haven’t learnt the material, the exercise is an enormous waste of time and energy. Being an educator is not just about sharing knowledge; it is about making sure that learners truly integrate this knowledge and learning

serve the purpose of industry. Any teaching that does not result in effective learning is useless. Therefore, to be an effective teacher, one needs to be able to deliver the domain knowledge using the most suitable pedagogical tools. An effective teacher is also required to remain at the frontiers of knowledge in his/her areas of subject expertise and gain practical knowledge of other domains as management is essentially interdisciplinary. For this, every teacher

needs to continuously upgrade himself/herself by engaging in research and teaching methodology which inculcate practical exposure to their students. This Faculty Development Programme (FDP) is aimed at honing the teaching methodology and research skills with industry of prospective, new and seasoned Engineering teachers, researchers and trainers.

*“ The
computer born
to solve
problems that
did not exist
before”
-Bill Gates*



*“Books allow you
to fully explore a
topic and immerse
yourself in a
deeper way than
most media today”*

Technical Interview Questions

- **What is a file?**

A file is a named location which stores data or information permanently. A file is always stored inside a storage device using file name (e.g. STUDENT.MARKS). A file name normally has primary and secondary name separated by a “.”(DOT).

- **What is a class?**

A class is a blueprint from which objects are created. A class contains methods and variables associated with an instance of a class.

- **What is an object?**

An object is an instance of a class. For example

```
class Abc{ _____ This is a class
int a; _____ This is a variable
public Abc(); _____ This is constructor
public static void main (String args[]) _____ This is a method
{
Abc a= new Abc(); _____ This is object creation where ‘a’ is the reference variable or object name
}
}
```

- **What is a constructor?**

A constructor is methods which are used to create an Object of class. There are two types of constructor Default & Parameterized constructor.

- **What is the different OOPS principle?**

The basic OOPS principle are as follows,

Encapsulation

Abstraction

Inheritance

Polymorphism

- **What is inheritance?**

Inheritance is property in which the property of a parent class(Superclass) is passed on to child class (Subclass). For example

```
class Abc{ — This is a class
int a; — This is a variable
public void abc(){} — Methods
}
class Xyz extends Abc — (Extend is the keyword, Xyz is the subclass which inherits the properties of
ABC parent class.)
{
public static void main (String args[]) — This is a method
{
Abc a= new Abc(); — This is object creation where ‘a’ is the reference variable or object name
}
}
```

- **What is polymorphism?**

Polymorphism is the ability of an object to take on multiple forms. Most commonly polymorphism is used in OOP when a parent class reference is used to refer to a child class object.

- **What are instance and class variables?**

Instance variable belongs to a particular instance of that class whereas Class variable. A class variable is also known as static variables. For example

```
public class Abc{
public int a; ..... This is an instance variable
public static int a1;..... This is a static or class variable
.....
.....
}
```

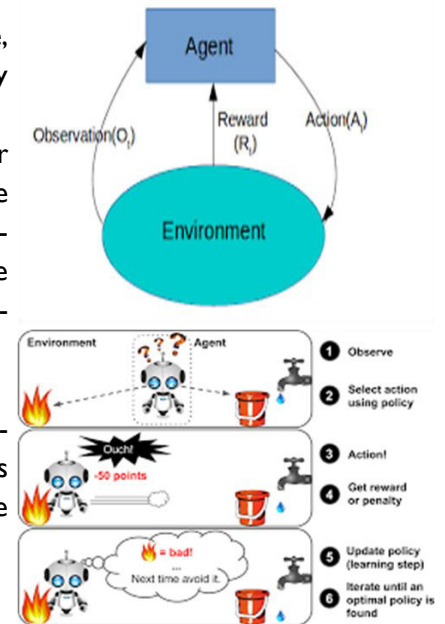
Student Articles

REINFORCEMENT LEARNING

Have you seen the baby learn to walk. The baby rarely succeeds the first time, right? The baby stands up, falls down and keeps on trying to walk. Eventually over time the baby learns to walk.

Actually, there is no one teaching the baby, its all based on the trial and error method which eventually leads to the success of the baby. Similarly, there are many situations where both humans and systems do not get the detailed instruction as to how to perform a task. But, you have to make do with the evaluation of your performance and then try to improve your behavior. Reinforcement learning is specialized in this area.

In Reinforcement Learning, a software agent makes observations and takes actions within an environment, and in return it receives rewards. Its objective is to learn to act in a way that will maximize its expected long term rewards. The best that explains the working of reinforcement learning is as follows:



Reinforcement learning differs from standard Supervised Learning in that correct input/output pairs need not be presented, and sub-optimal actions need not be explicitly corrected. Instead the focus is on performance, which involves finding a balance between exploration (of uncharted territory) and exploitation (of current knowledge).

APPLICATIONS OF REINFORCEMENT LEARNING:

- 1. Manufacturing:** In Fanuc, a robot uses deep reinforcement learning to pick a device from one box and putting it in a container.
- 2. Inventory Management:** A major issue in supply chain inventory management is the coordination of inventory policies adopted by different supply chain actors, such as suppliers, manufacturers, distributors, so as to smooth material flow and minimize costs while responsively meeting customer demand.
- 3. Delivery Management:** Reinforcement learning is used to solve the problem of Split Delivery Vehicle Routing. Q-learning is used to serve appropriate customers with just one vehicle.
- 4. Power Systems:** Reinforcement Learning and optimization techniques are utilized to assess the security of the electric power systems and to enhance Microgrid performance.

References:

1. Aurélien Géron - Hands-On Machine Learning with Scikit-Learn and TensorFlow_ Concepts, Tools, and Techniques to Build Intelligent Systems - O'Reilly Media

-Article by

Uday Kiran Samineni
IV CSE B



(Accredited by NAAC, Approved by AICTE
& Permanently Affiliated to JNTUH)

JB Educational Society

Campus:

Bhaskar Nagar, Moinabad Mandal

R.R. District, Hyderabad

Telangana State, India-500075

☎ 08413-235127

J.B.I.E.T. has well developed infrastructural facilities, such as adequate built up area, well equipped laboratories, libraries and information centers with digitalization and automation and on line transaction facilities in the campus. All facilities such as Medical, Transport, Canteen and Games & Sports, are available besides Seminar Halls, Conference Halls, Indoor Auditorium, Open-Air Theatre and Banking.



Toppers of 2014-2018 batch

Gold Medal



14671A0570
CHANDRAPATI ATMA SREE
GAURI

Silver Medal



14671A0565
POTHARAJU SAI MURALI
PRASANNA KUMAR