

## ABOUT IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)

IEEE, an association dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic, and computing fields and related areas of science and technology that underlie modern civilization. IEEE's roots go back to 1884 when electricity began to become a major influence in society. There was one major established electrical industry, the telegraph, which since the 1840s had come to connect the world with a data communications system faster than the speed of transportation. The telephone and electric power and light industries had just gotten underway.

### Intelligent app(i-app)

The function of education is to teach one to think intensively and to think critically.

The future is intelligent application. Learn how companies are shifting from Big Data to intelligent application approaches. New generation of application use all the data they can, including incoming real-time data to respond in the moment to changing circumstances and formulate advantageous outcomes.

Include delivering on digital transformation promise sought by companies to deliver rich customer experience. Data remains a foundational element of computing. Recently, Hadoop and Big Data have been a central part of data progression, allowing you to capture data at scale. Intelligence plus character - that is the goal of true education

-M.SAI PRASHANTH  
(17881A0537)  
3rd Year, CSE

## ABOUT IEEE CS (COMPUTER SOCIETY)

IEEE Computer Society is the leading provider of technical information, community services and personalized services to the world's computing and computer science professionals. IEEE Computer Society strives to be essential to the global technical community and computer professionals everywhere and be universally recognized for the contributions of technical professionals in researching, developing, and applying technology to improve global conditions. The Computer Society serves the information and career-development needs of today's computing researchers and professionals with books, conferences, conference publications, magazines, online courses, software development certifications, standards, and technical journals. Known worldwide for its computer-standards activities, the Computer Society promotes an active exchange of ideas and technological innovation among members and technology companies producing today's innovative products and services. Teaching more than 100,000 science and technology professionals, the computer society is the largest of IEEE's 38 societies.

Web development had a huge set of rules and techniques. Every Web developer must know about them. If anyone wants a website to look and function as their wish, then they need to know about Web Technologies. That will help them to achieve their Ideal webpage/website.

Developing a website is more easy and effective if you know about HTML, CSS, JavaScript, PHP and Bootstrap. Web servers, databases and business applications are also part of Web Technologies.

- M.D.N.AKASH  
17881A05D6

## Cyber Security Challenges

We are becoming more advance in technology. Advances in technology leads to vulnerabilities. Due to this Cyber attacks are increasing day by day. There seems to be no end to hackers who want to access your business and customer data and then use that information to their own malicious ends. IOT, Blockchain, Serverless Apps are more vulnerable. We should decrease the attacks by bringing awareness in people and improving protection mechanisms. Each year brings with it savvier hackers, Which means that each year also brings new defense mechanisms as well. And we should also bring awareness in opensource technologies, which reduces the cost and decrease the vulnerabilities.

- NEERUKONDA PUNEETH  
(17881A0526)  
3rd Year, CSE

# SERVERLESS: MORE CODE, LESS CLOUD

Since the launch of AWS Lambda at re:Invent in 2014, people have gone nuts over the idea of Serverless. Though there is no single way in which people define Serverless, here is how I define Serverless.

“Serverless is a cloud environment in which code is run upon the trigger of certain events, allowing cloud service providers to cost users only for the time of execution”.

The definition does not reflect the idea of “More Code, Less Cloud”, but practically all Serverless environments are packaged as FaaS (Function as a Service) solutions and this helps developers think less about how to manage the cloud but just write the code that they want to run while defining the events upon which the code should be run also as a part of the code.

When managing a cloud environment, one of the more important issues to address is “Scalability”. Serverless solutions also address this issue in a very effective way and auto scale the server based on the computational demand also thus making it easy for the coder and allowing him to think only about the code and not how to manage his cloud environment.

With the introduction above, though Serverless might seem like some wonderful utopian dream for a coder, it has its own share of issues, the most popular of these being “Cold Starts”.

**Sri Pravan Paturi(16881A05G5)**  
4th Year CSE C  
Utor AI ([www.utorai.com](http://www.utorai.com))

## Upcoming Events

### **11th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2019)([www.mirlabs.net/SoCPaR19](http://www.mirlabs.net/SoCPaR19))**

SoCPaR 2019 is organized to bring together worldwide leading researchers and practitioners interested in advancing the state of the art in Soft Computing and Pattern Recognition, The themes for this conference are thus focused on "Innovating and Inspiring Soft Computing and Intelligent Pattern Recognition".

The conference is expected to provide an opportunity for the researchers to meet and discuss the latest solutions, scientific results and methods in solving intriguing problems in the fields of soft Computing and Pattern Recognition. The General Chairs, along with the entire team cordially invite you to submit your latest research results and to take part in the upcoming conference, to be held during December 13-15, 2019 in Hyderabad, India.

### **11th World Congress on Nature and Biologically Inspired Computing (NaBIC 2019)([www.mirlabs.net/nabic19](http://www.mirlabs.net/nabic19))**

.The 11th World Congress on Nature and Biologically Inspired Computing (NaBIC 2019) to be held in Hyderabad, India during December 13-15, 2019. NaBIC 2019 is organized to provide a forum for researchers, engineers, and students from all over the world, to discuss the state-of-the-art in machine intelligence, and address various issues on building up human friendly machines by learning from nature. The conference theme is “Nurturing Intelligent Computing Towards Advancement of Machine Intelligence”.

# CHATBOTS: THE NEXT BIG THING!

We are all hearing a lot about chatbots these days. It's new and trendy so what is this chatbot and why is it so famous? Generally speaking a bot is any software that performs an automated task, however the class of bots that live in chat platforms are called chatbots. The concept of the conversation is central to a chatbot, It can and does converse with a human. You can text, talk or use graphical interfaces to interact with a chatbot.

There are basically two types of chatbot:

**Command based or Structured:** Chatbots that function on structured questions and answers are less complex

**AI based:** Chatbots that function on machine learning and Natural Language Understanding are complete AI.

Chatbots work within chat platforms such a Facebook Messenger, Slack or SMS and even on websites. Each platform has its own features. These features determine the possible ways in which the chatbot can interact with the user, however the actual behavior of the chatbot is determined by the bot itself.

Artificial Intelligence is dramatically changing business, and chatbots, fueled by AI, are becoming a viable customer service channel. Bots today are revolutionizing the arena of customer interaction and making it more convenient for the users.

The purpose of chatbots is to support and scale business teams in their relations with customers. Doing this helps businesses save a lot of money which is why many business owners are adopting this technology.

Chatbots can help customers make ecommerce purchases, answer customer services questions, monitor employees or customer's satisfaction, improve a response rate from customers, automate repetitive tasks and It is actually possible to come up with a chatbot use case for every single business or industry.

What goes into developing an AI powered chatbot? Here's a brief Anatomy:

**Backend:**

The backend of the chatbot is designed to handle messages from different channels and process them with Natural Language Processing (NLP) services. Most backend services support both .NET and Node.js server-side SDKs, so if you have experience with languages that run in either of those two popular frameworks, you are golden.

**Natural Language Processing:**

Natural language processing is the heart of AI-driven chatbots. With the help of sophisticated NLP algorithms chatbots can process the received text: interpret, infer, and determine what was meant (written or said) and then define a series of appropriate actions.

NLP forms the basis of the language recognition used by the famous Google Assistant and Apple's Siri. It includes two main components: natural language understanding (NLU) and natural language generation (NLG).

NLU involves mapping the given input and analyzing various aspects of the language. It is aimed at handling and converting unstructured data into a structured form – understandable for the system.

Machine Learning and Neural Networks are generally used to make chatbots enterprise ready.

**Database and Dashboard:**

Different databases like MongoDB, MySQL or any other database can be used to store and retrieve data and also to make your bot learn from the existing data.

A Dashboard is required to measure the performance and health of your bot and also to provide insights, metrics and analytics about your chatbot.

# OUR SB ACTIVITIES

IEEE Computer Society Vardhaman Chapter has a comprehensive and vibrant schedule of events which are being hosted this academic year. This chapter is targeting the most happening tech in the computer science world and is hosting workshops on these cutting edge technologies.

The chapter has so far hosted hands on workshops on "Git, GitHub and version control systems" and "Data Science", with many more to come this year.

## Two- Day Workshop Image-Processing With Open Cv

Image processing is a technique used to manipulate an image through several sets of algorithms, resulting in an output image or any feature abstracted from the image. Department of Computer Science & Engineering sponsored Two Day Workshop on "Image Processing with Open CV" among Various Stakeholders.

-11 January 2019 to 12 January 2019.

## An introduction to Git and Github

Providing a formal introduction to using Git from the command line. Providing the students with a cheat sheet of git commands that are used regularly. Help students in completing the introductory course on GitHub learning lab. All CSE 2nd and 3rd Year students who enrolled for the workshop.

-12th February 2019

## One Day Data Science Workshop

Data science is a multi-disciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data. CSE 2nd and 3rd Year students who enrolled and attended for the workshop.

-07th March 2019

# COMMITTEE

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## AHCSSC 19

AHCSSC 19 was the second yearly congress of IEEE Computer Society' chapter ,Hyderabad Section.The All Hyderabad Section Computer Society Student Congress had diverse speakers from different walks of life, all united to talk about the tech that matters the most. The theme of the Congress was "Artificial Intelligence and Robotics".The congress was attended by 290+ studnts from various reputed institutes across Telangana. AHCSSC 19 had diverse activities including Seminars, Expert Talks, Project Expo's, Panel Discussions, Stand up comedy session to enthral the audience, DJ Night and a fantastic Gala Dinner to mark the end of a successful 2 Day Tech Colloquium.

-3rd - 5th January 2019

## STTP Workshop on "The Next Gen Cloud"

IEEE Hyderabad Section in association with IEEE CS Hyderabad and Vardhaman College of Engineering's IEEE Computer Society Chapter hosted a Five day Short Term Training Programme(STTP) on "The Next Gen Cloud" which was organized by Vardhaman College of Engineering's "Centre for Virtualization and Cloud Computing".

The main objective of the workshop was to inculcate awareness among the faculty members, researchers and students towards challenging and interesting areas of Computer Science like Cloud Computing.

-11th to 15th March 2019