RAMIREDDY SUBBARAMI REDDY ENGINEERING COLLEGE

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EVENTS ORGANIZED
ACADEMIC YEAR 2022-23
EVENTS REPORT(ODD SEMESTER)

SNO	Date	NAMEOF THE EVENT	Resource Person	No. participants
1	21.11.2022	Design thinking and android App Development for Successful Entrepreneur	Dr. P Sudheer Reddy and Dr P Suresh	180
2	17.12.2022	Guest Lecturer on AI and ML	Dr. AP Siva Kumar, Professor, Department of CSE,JNTUA	180

1. **"Design thinking and android App Development for Successful Entrepreneur"**

The department of AI & DS of RSR engineering college, kavali, organized A Workshop on "**Design thinking and android App Development for Successful Entrepreneur**" for B.Tech AI & DS students on 21-11-2022. **Dr.P Sudheer Reddy** and **Dr P Suresh. are** resource persons . The program was part of the RSREC initiatives for enhancing the skill set of the students beyond the undergraduate curriculum in the state of the art technologies and keeping them prepared to meet the challenges after they graduate .They were conducted A Workshop on "Design thinking and android App Development for Successful Entrepreneur" for B.Tech AI & DS students on 21-11-2022. Dr.P Sudheer Reddy and Dr P Suresh. This was followed by an energetic question-answer session, were the students clarified various queries they had

This Workshop was inaugurated by Dr P Veera Narayana Reddy, Principal of RSREC. Dr. K.Raja reddy ,Director and Mr KV Prasada Reddy, HoD ,AI & DS, delivered speeches inspiring the students to get familiarized with key technologies beyond the curriculum.

Design thinking is a method used by designers in ideation as well as mobile app development. It is used to solve complex problems and find desirable solutions for clients. It also helps in tackling problems which are unknown or ill-defined. Apart from Information Technology, it is used in various other fields viz., Engineering, medicine, business, architecture, sports, research, mobile app development etc**.**

Design thinking is a solution based approach which is vital for user experience and also to understand the needs of the users. It is the potential to capitalize on opposing ideas to create new solutions. In terms of design, it means balancing desirability, technical feasibility and economic viability of a product or a design. It also gives us a new way of tackling the problems.It is a human-centred and iterative design process which normally consists of 5 steps – Defining the problem, Researching, Ideation, Prototype and Testing. But these 5 stages are not always sequential, they can occur simultaneously as well as repetitively.

- Research – research the needs of your target audience and empathize with your users to understand them. Businesses need to empathize with their users to understand their needs and to find the solution for these needs.
- Define – the problems using the research data and define your insights for these problems
- Ideation – includes challenging the assumptions and brainstorming for ideas and solutions. (If these ideas aren't viable, there can be an evaluation of the ideas or solutions before the prototyping starts)

- Prototype – to start developing a prototype of the solutions.

- Testing – the prototype to know the outcome, feasibility and viability of your ideas and solutions

- Delivery and launch, implementation, iterating and scaling happens once the testing of a prototype is successfully completed

  All the participants gave a positive feedback about the guest lecturer and resource person and they felt that these type of seminars must be conducted on regular basis to enhance their skills and keeping them prepared in today's competitive world.

2. **A Guest Lecturer on " Artificial Intelligence and Machine Learning"**

The department of AI & DS of RSR engineering college, kavali, organized A Guest Lecturer on " Artificial Intelligence and Machine Learning" for B.Tech II CSE and AI & DS students on 17-12-2022. Dr. AP Siva Kumar, Professor, Dept. CSE, JNTUA, Anantapur is the resource person . The program was part of the RSREC initiatives for enhancing the skill set of the students beyond the undergraduate curriculum in the state of the art technologies and keeping them prepared to meet the challenges after they graduate .He was conducted a Guest Lecturer on " Artificial Intelligence and Machine Learning" This was followed by an Energetic question-answer session, were the students clarified various queries they had

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AI or artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. These processes include learning, reasoning and self-correction. Some of the applications of AI include expert systems, speech recognition and machine vision. Artificial Intelligence is advancing dramatically. It is already transforming our world socially, economically and politically.

Types of Artificial Intelligence:

Artificial Intelligence can be classified in several ways. The first classifies the AI as either weak AI or strong AI. Weak AI also known as narrow AI, is an AI system that is designed and trained for a specific type of task. Strong AI, also known as artificial general intelligence, is an AI system with generalized human cognitive abilities so that when presented with an unfamiliar task, it has enough intelligence to find a solution.

Artificial Intelligence Technologies:

The market for artificial intelligence technologies is flourishing. Artificial Intelligence involves a variety of technologies and tools, some of the recent technologies are as follows:

- **Natural Language Generation**: it's a tool that produces text from the computer data. Currently used in customer service, report generation, and summarizing business intelligence insights.
- **Speech Recognition**: Transcribes and transforms human speech into a format useful for computer applications. Presently used in interactive voice response systems and mobile applications.
- **Machine Learning**: Provides algorithms, APIs (Application Program interface) development and training toolkits, data, as well as computing power to design, train, and deploy models into applications, processes, and other machines. Currently used in a wide range of enterprise applications, mostly `involving prediction or classification.
- **Deep Learning Platforms**: A special type of machine learning consisting of artificial neural networks with multiple abstraction layers. Currently used in pattern recognition and classification applications supported by very large data sets.
- **Biometrics:** Biometrics uses methods for unique recognition of humans based upon one or more intrinsic physical or behavioral traits. In computer science, particularly, biometrics is used as a form of identity access management and access control. It is also used to identify individuals in groups that are under surveillance. Currently used in market research.

- **Robotic Process Automation**: using scripts and other methods to automate human action to support efficient business processes. Currently used where it is inefficient for humans to execute a task.

Applications of Artificial Intelligence:

1. **Artificial Intelligence in Healthcare:** Companies are applying machine learning to make better and faster diagnoses than humans. One of the best-known technologies is IBM's Watson. It understands natural language and can respond to questions asked of it. The system mines patient data and other available data sources to form a hypothesis, which it then presents with a confidence scoring schema. AI is a study realized to emulate human intelligence into computer technology that could assist both, the doctor and the patients in the following ways:

- By providing a laboratory for the examination, representation and cataloguing medical information
- By devising novel tool to support decision making and research
- By integrating activities in medical, software and cognitive sciences
- By offering a content rich discipline for the future scientific medical communities.

2. **Artificial Intelligence in business**: Robotic process automation is being applied to highly repetitive tasks normally performed by humans. Machine learning algorithms are being integrated into analytics and CRM (Customer relationship management) platforms to uncover information on how to better serve customers. Chatbots have already been incorporated into websites and e companies to provide immediate service to customers. Automation of job positions has also become a talking point among academics and IT consultancies.

3. **AI in education:** It automates grading, giving educators more time. It can also assess students and adapt to their needs, helping them work at their own pace.

4. **AI in Autonomous vehicles:** Just like humans, self-driving cars need to have sensors to understand the world around them and a brain to collect, processes and choose specific actions based on information gathered. Autonomous vehicles are with advanced tool to gather information, including long range radar, cameras, and LIDAR. Each of the technologies are used in different capacities and each collects different information. This information is useless, unless it is processed and some form of information is taken based on the gathered information. This is where artificial intelligence comes into play and can be compared to human brain. AI has several applications for these vehicles and among them the more immediate ones are as follows:

- Directing the car to gas station or recharge station when it is running low on fuel.
- Adjust the trips directions based on known traffic conditions to find the quickest route.
- Incorporate speech recognition for advanced communication with passengers.
- Natural language interfaces and virtual assistance technologies.

5. **AI for robotics** will allow us to address the challenges in taking care of an aging population and allow much longer independence. It will drastically reduce, may be even bring down traffic accidents and deaths, as well as enable disaster response for dangerous situations for example the nuclear meltdown at the Fukushima power plant.

6. **Cyborg Technology:** One of the main limitations of being human is simply our own bodies and brains. Researcher Shimon Whiteson thinks that in the future, we will be able to augment ourselves with computers and enhance many of our own natural abilities. Though many of these possible cyborg enhancements would be added for convenience, others may serve a more practical purpose. Yoky Matsuka of Nest believes that AI will become useful for people with amputated limbs, as the brain will be able to

communicate with a robotic limb to give the patient more control. This kind of cyborg technology would significantly reduce the limitations that amputees deal with daily.

In the future, predictive analytics and artificial intelligence could play an even more fundamental role in content creation and also in the software fields. Open source information and artificial intelligence collection will provide opportunities for global technological parity and the technology of artificial can become the future in all the domains of health, environment, public safety and security.

All the participants gave a positive feedback about the guest lecturer and resource person and they felt that these type of seminars must be conducted on regular basis to enhance their skills and keeping them prepared in today's competitive world.

ఆర్.ఎస్.ఆర్.లో ఆర్టిఫిషియల్ ఇంటలిజెన్స్ సదస్సు

చీటుగుంట, డిసెంబరు 17 ప్రభాతవార్త బోగోలు మండలం కడనూతలలోని ఆర్.ఎస్.ఆర్ ఇంజనీరింగ్ కళాశాలలో శనివారం సిఎస్.ఇ, ఎఐఅండ్డిఎస్ బ్రాంచి నందు చదువుతున్న విద్యార్థిని, విద్యార్థులకు ఆర్టిఫిషియల్ ఇంటలిజెన్స్, మిషన్ లెర్నింగ్ మీద ప్రత్యేక సదస్సు నిర్వహించినట్టు కళాశాల డైరెక్టర్ డాక్టర్ కె.రాజారెడ్డి తెలిపారు. ఈ సదస్సులో జెఎన్టియు అనంతపూర్ ప్రొఫెసర్ డాక్టర్ ఎ.పి. శివకుమార్ మాట్లాడుతూ ఎఐ, మిషన్ లెర్నింగ్ భవిష్యత్తులో విద్యార్థులకు ఎలా ఉపయోగపడుతుంది, ఉద్యోగ అవకాశాలు ఎలా వుంటాయి, ఎలాంటి ఎంఎన్సి కంపెనీలు ఈ కోర్సును ఆఫర్ చేస్తున్నాయి అనే విషయాలపై వీడియోల ద్వారా వాటి ప్రాముఖ్యతను తెలిపారు.దాదాపు 400 మంది విద్యార్థులు హాజరైనారని వారితో పాటు సిఎస్.ఇ హెచ్.వోడి ప్రొఫెసర్ కె.రమేష్, ఎఐఅండ్డిఎస్ హెచ్.వోడి ప్రసాద్,వైస్ ప్రిన్సిపాల్ శ్రీనివాస్, ప్లేస్మెంట్ ఆధికారి మహేష్రెడ్డి, ఎంబి హెచ్.వోడి మల్యాద్రిరెడ్డి, అధ్యాపకులు పాల్గొన్నారని తెలిపారు.