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Anil Neerukonda Institute of Technology and Sciences (ANITS)
(An Autonomous Institute Affiliated to Andhra University, Visakhapatnam)
Department of Computer Science & Engineering

Circular

17-02-2018

ALUMNI INTERACTION

It is hereby informed to all 3rd CSE-A students that there will be a talk from Anits alumni by Mr.T.Shyam vamsi – IBM India on "Recent Trends in IT industry" from 10:50 to 12:00, in CSE LAB. All students are advised to make this session interactive.

(Signature)
Alumni
Incharge

(Signature)
HOD,CSE
Head of the Department of
Computer Science & Engineering
Anil Neerukonda Institute of
Technology & Sciences
Sengutturu, Visakhapatnam Dist.

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GUEST TALK - Mr.T.Syam Vamsi - IBM India Pvt.Ltd

17-02-2018

Attendance Sheet:

SlNo	AdmnNo	Name	Signature
1	315126510001	Kaushik	Kaushik
2	315126510002	←	ABSENT
3	315126510003	Ravali Sujatha	Ravali Sujatha
4	315126510004	←	ABSENT
5	315126510005	Alekya Sripad	Alekya
6	315126510006	←	ABSENT
7	315126510007	←	ABSENT
8	315126510008	A. Saijeda	A. Saijeda
9	315126510009	Eshwar	Eshwar
10	315126510010	Raghavendra	Raghavendra
11	315126510011	A. Yashwanth	A. Yashwanth
12	315126510012	B. Gowri	B. Gowri
13	315126510013	B. Bhisla Ran	Bhisla Ran
14	315126510014	B. Sandeep	B. Sandeep
15	315126510015	B. Saikumar	B. Saikumar
16	315126510016	←	ABSENT
17	315126510017	Robith	Robith
18	315126510018	B. Mohan Sai	B. Mohan Sai
19	315126510019	←	ABSENT
20	315126510020	Kranthi Kumar	Kranthi Kumar
21	315126510021	←	ABSENT
22	315126510022	B. ATCHYUTH	B. Atchuth
23	315126510023	Blavasa Madabathula	H. Bhavani
24	315126510024	B. S. S. Avinash	B. S. S. Avinash
25	315126510025	B. Navika	B. Navika
26	315126510026	←	ABSENT
27	315126510027	←	ABSENT
28	315126510029	Sai Deepak	Sai Deepak
29	315126510030	←	ABSENT
30	315126510031	←	ABSENT
31	315126510032	←	ABSENT
32	315126510033	←	ABSENT
33	315126510034	C. Prashanth Kumar	C. Prashanth Kumar
34	315126510035	D. Sharmila	D. Sharmila
35	315126510036	D. Lalitha	D. Lalitha
36	315126510037	D. Sarath	D. Sarath

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37	315126510038	←	ABSENT	→
38	315126510039	S.H.D	S.H.D	
39	315126510040	D. Subhakar Kumar	D. Subhakar Kumar	
40	315126510041	←	ABSENT	→
41	315126510042	D. Ganesh Teja	D. Ganesh Teja	
42	315126510043	D. Manjula	D. Manjula	
43	315126510044	D. Hanu Kumar	D. Hanu Kumar	
44	315126510045	D. K. Subrahmaniam	D. K. Subrahmaniam	
45	315126510046	E. Ramash	E. Ramash	
46	315126510047	←	ABSENT	→
47	315126510048	←	ABSENT	→
48	315126510049	←	ABSENT	→
49	315126510050	G. Christina	G. Christina	
50	315126510051	G. Abhinav	G. Abhinav	
51	315126510052	G. Nagma	G. Nagma	
52	315126510053	←	ABSENT	→
53	315126510054	G. Pragathi	G. Pragathi	
54	315126510055	←	ABSENT	→
55	315126510056	←	ABSENT	→
56	315126510057	G. NIKHIL DAS	G. NIKHIL DAS	
57	315126510058	G. Nagma	G. Nagma	
58	315126510059	G. Anil Reddy	G. Anil Reddy	
59	315126510060	←	ABSENT	→
60	315126510061	Ghokate	Ghokate	
61	315126510062	Ghokate	Ghokate	
62	315126510063	Hanisha Balla	Hanisha Balla	
63	315126510064	←	ABSENT	→
64	315126510065	T. Sant Kumar	T. Sant Kumar	
65	315126510066	←	ABSENT	→
66	315126510067	J. Pravarsha	J. Pravarsha	
67	315126510068	J. Varunsi	J. Varunsi	
68	315126510069	Jyothi Kumari	Jyothi Kumari	
69	315126510070	K.B.S. Prasanna	K.B.S. Prasanna	
70	315126510071	K.L.P. Ganapathi	K.L.P. Ganapathi	

G. Nagma
Alumni Incharge

Head of the Department of
Computer Science & Information
Technology & S
Sangivada

Guest Lecture on "Recent Trends in IT Industry"

IT is becoming more and more a gamechanger in the industry. The IT trends for 2018 are dominated by artificial intelligence, followed by the cloud and innovative digital platforms such as fog computing, serverless PaaS and blockchain. 5G is also becoming increasingly important as a key technology for the implementation of Industry 4.0.

1. Artificial intelligence still on the upswing

Due to the massive increase in data and computing power, the capabilities of Artificial Intelligence (AI) have been expanded in recent years to such an extent that computers are now able to learn just like humans. AI is a megatrend that combines machine learning technologies such as artificial general intelligence (AGI), deep learning and deep reinforcement learning as well as cognitive computing:

Artificial General Intelligence

(AGI), also known as Strong AI or Full AI, is an artificial intelligence that is already very similar to human intelligence.

Deep Learning

describes as part of machine learning a deeper learning via artificial neural networks. These include image, speech and face recognition. Chatbots also learn in this way by continuously improving their vocabulary and being able to talk to customers in the waiting loop. Other applications include autonomous driving and forecasting customer behavior based on data from a company's CRM system.

Deep reinforcement learning

is a profound strengthening learning based on the principle of reward and punishment. An "agent" learns a strategy to get the maximum reward.

Cognitive Computing

simulates human thinking processes in a computer model (e.g. IBM Watson). Technical methods include data mining, pattern recognition and natural language processing.

2. Cloud-based platforms are growing

The trend towards outsourcing the IT landscape to the cloud will continue in 2018. In order to use digital technologies such as Internet of Things (IoT), Artificial Intelligence or Augmented Reality more flexibly and scalably, the use of platform services from cloud providers is becoming increasingly necessary.

In addition, more and more companies are sharing smart contracts, operational data and machine know-how in the cloud or meeting with suppliers in the cloud. Enterprise Resource Planning (ERP) tools are also increasingly finding their way into the cloud, as this enables companies to better control their processes and makes their daily work easier and more efficient.

Industry 4.0 projects, data-supported business models and increased customer sensitivity also require a high level of data protection and data security. As experienced cloud providers today can guarantee a higher level of data security than is often feasible in companies, more and more IT managers are opting for a cloud-based platform.

Companies such as Siemens with its Mindsphere Platform or Robert Bosch with its IoT platform point the way here. In the future, too, applications for the cloud will increasingly be created, containerized and orchestrated as "Cloud-native" apps.

3. Fog Computing as an alternative to Cloud Computing

Fog Computing or Edge Computing will become increasingly important for companies as an alternative to coping with the flood of data that occurs in a completely networked world. The main reason for this development is that the cloud's bandwidth is too small to be able to process the huge amounts of data.

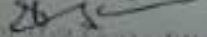
Fog Computing brings analysis, processing and storage functions to the edge of a network. In future, intelligent routers will be used to carry out processing tasks directly on site. Data is pre-filtered and only selected data migrates to the cloud. In this way, the cloud is relieved. Companies should therefore start integrating edge design patterns into their infrastructure architectures - especially those with significant IoT elements.

4. Trend to own 5G networks for industry

5G, the fifth generation of mobile radio, is expected to enable data transfer rates of up to 10 gigabits per second and thus make the internet almost 10 times faster. Accordingly, as a key technology it has the potential to revolutionize the way industry and consumers use the Internet.

The technology accelerates the development of Industry 4.0 applications in particular and enables completely new system approaches and solutions in factories to realize more flexible and efficient production methods. However, Gartner analysts expect only three percent of vendors to bring the new standard to market by 2020. German industrial companies therefore do not want to rely on the networks of mobile phone operators and have recently called for their own 5G networks for industry.

The guest discussed the above topics and the lecture ended with thanks.


Head of the Department of
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and Information Systems
Sankar Dasgupta
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