

**A Guest Lecture on
MACHINE LEARNING & ITS APPLICATIONS IN FOOD
ENGINEERING
26TH December 2019**

By

Prof.GuruRaj, ACM Distinguished Speaker

1. **Objective of the Event:** Objective of the event is to bring out the innovative ideas from the young minds to solve the problems related to various domains such as food engineering using Machine Learning techniques.

Machine learning and deep learning are two of the most commonly used algorithms in the field of AI. These models learn from data and are used by people, companies and government agencies to make predictions. The goal of machine learning is to explore the infinite probability space in order to come up with the most suitable solution to any problem.

ML is applied for packaging and foodservice industries:

- Material Identification —identify polymers, plastics, and microplastics automatically using computer vision and machine learning to save hundreds of hours in sorting and recycling
- Product Development Recommendation System — identify polymers or plastics most suitable for new products using machine learning to save hundreds of hours in research and development
- Packaging Recommendation System — identify packaging options best suited for new products using machine learning and recommendation systems to save hundreds of hours in product development

2. **About the Program/Event:** A Guest Lecture on Machine Learning and its applications in Food Engineering for IV CSE students by the Department of CSE at KKR & KSR Institute of Technology & Science, organized by Computer Science and Engineering Department ACM chapter.

3. **Details of External Participants:** NIL

4. **Details of Resource Person :**

Name: Professor Gururaj H L

Qualification: M. Tech

Designation: Assistant Professor in Computer Science and Engineering , ACM Professional member and Faculty Sponsor of VVCE ACM Student Chapter.

No of Publications: 50

Years of Experience:6

Awards: Young Scientist Award for International travel Grants from ITS-SERB, DST, Government of India in December 2016.

5. **Venue of the Event:** New Block Seminar Hall, KKR & KSR Institute of Technology & Sciences

6. **Date & Time of the Event:** 26th Dec,2019

7. **No of Students Participated:** 165

8. **Year, Branch & Section of Students:** IV Year, CSE A, B, & C

9. **No of Faculties Participated:** 3

10. One Student Member Feed Back:

I am VARIKUTI JAHNAVI with Regd. No 16JR1A05E3 of IV CSE- 3 section and I am very happy to share my experience of Guest Lecture on Machine learning & its applications in Food Engineering. First of all I would like to thank our management and Department of CSE for arranging such a wonderful platform for the Guest lecture on Machine Learning & its applications using Food Engineering.

This Guest lecture provide knowledge on applications of ML which is help full for finding problems in food technology and solve them by using machine learning.

11. Promotion of the Event on the Social Media Website:

[https://www.facebook.com/photo.php?](https://www.facebook.com/photo.php?fbid=2713415052070724&set=pcb.170609094046756&type=3&__tn__=HH-)

[fbid=2713415052070724&set=pcb.170609094046756&type=3&__tn__=HH-](https://www.facebook.com/photo.php?fbid=2713415052070724&set=pcb.170609094046756&type=3&__tn__=HH-)

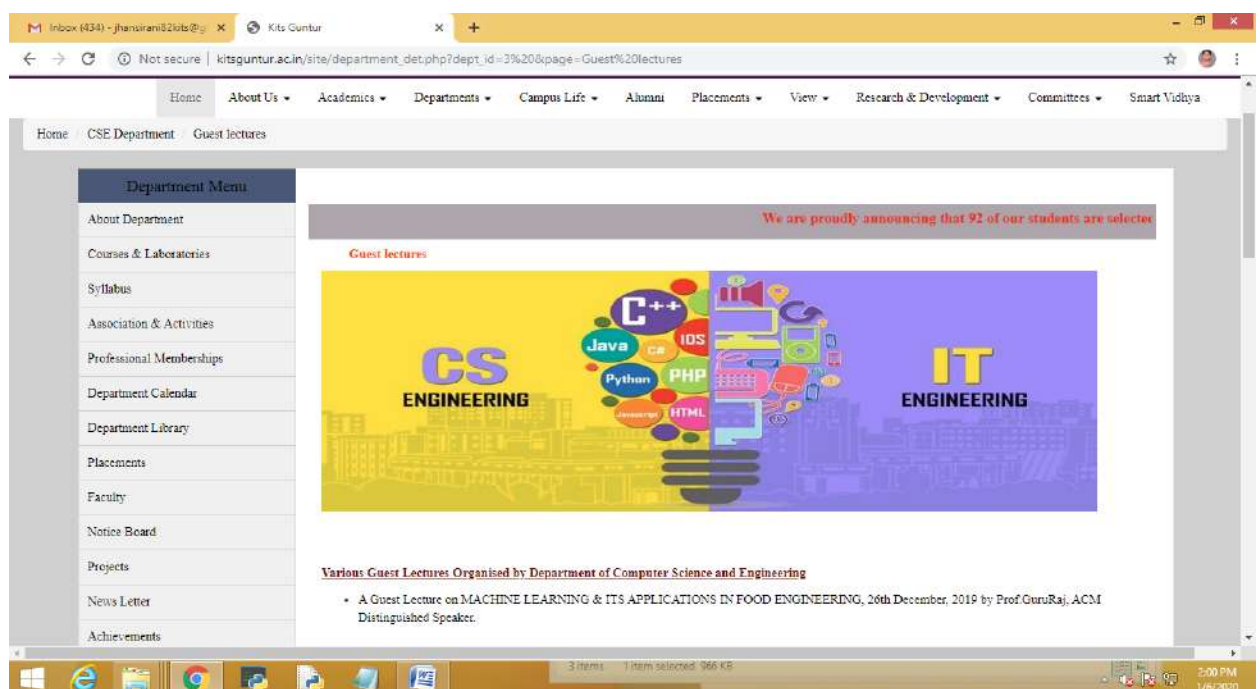
R&eid=ARBwoOYDXXbcw-fj93zP52PcOTjMR9F-

NYnBKpPxtJhc7iKjQBvpKsYv3uhMIkjjBdZ4D8BtgfAasRpf



12. Promotion of the Event on the University/College Website: Yes

http://kitsguntur.ac.in/site/admin/up_files/Machine%20Learning%20and%20its%20applications%20in%20Food%20Engineering%20by%20GuruRaj%20HL%2026-12-2019.pdf



13. Event Photographs:



Welcome Banner for ACM-DSP Program



Profile Reading of Prof. GuruRaj HL by ACM Student Member Ms.Geethika



Prof.GuruRaj with Pro.R.Ramesh



Discussion on Machine Learning Basics



Discussion on Machine Learning and its applications in Food Engineering



Student Interactions and Doubt Clarifications



**Student Interactions and Doubt Clarifications
Machine Learning Fake News Detection System Project**



Felicitation to Prof.GuruRaj HL by the Dept faculty Dr.G.Dileep Kumar, Mr.Chandra Sekhar and College ACM Faculty Sponsor Mr.VeeraRaghavaRao Atukuri

కిట్స్ లో మెషిన్ లెర్నింగ్ పై సదస్సు

గంటూరు (విద్య), డిసెంబరు 24: స్థానిక విజనంపాడులోని కిట్స్ ఇంజనీరింగ్ కళాశాలలో గురువారం ఆసానియేషన్ ఫర్ కంప్యూటింగ్ కేంపెన్ లో (ఎ.పీ.ఎం) స్టూడెంట్ ఛాప్టర్ ఆధ్వర్యంలో మెషిన్ లెర్నింగ్ పై సదస్సు నిర్వహించారు. మెషిన్ లెర్నింగ్ నిపుణులు ఆచార్య గురురాజ్ మాట్లాడుతూ ప్రస్తుత జీవన విధానంలో ఆహార పదార్థాలపై సాంకేతిక అనుసంధానంపై విద్యార్థులకు అవగాహన కల్పించాలని పేర్కొన్నారు. మెషిన్ లెర్నింగ్ ఇన్ ఫుడ్ ఇంజనీరింగ్ అంశంలో పరిశోధనలకు మంచి అవకాశాలున్నాయని పేర్కొన్నారు. శార్యక్రమంలో ప్రెస్టిజియల్ డాక్టర్ కెహరివాణు, ఎలెమెంట్ డైరెక్టర్ డాక్టర్ పి.బాబు, కంప్యూటర్ సైన్స్ విభాగాధిపతి ఆచార్య ఆర్. రమేష్, పీసీసీ కేర్ నెటివ్ రామచంద్ర తదితరులు పాల్గొన్నారు.



మాట్లాడుతున్న గురురాజ్



ఆహారంపై పరిశోధనలు అవసరం

విజనంపాడు (వట్టిచెరుకూరు), న్యూస్ టుడే: ఆహార పదార్థాలపై నిరంతరాయంగా పరిశోధనలు చేయవచ్చని బెంగళూరుకు చెందిన ఆచార్యులు గురురాజ్ అన్నారు. ఆహార పదార్థాల తయారీలో యంత్ర, సాంకేతిక పరిజ్ఞానంపై గురువారం విజనంపాడులోని కిట్స్ కళాశాలలో స్టూడెంట్స్ ఛాప్టర్ ఆధ్వర్యంలో కంప్యూటర్ సైన్స్ విద్యార్థులకు జరిగిన అవగాహన సదస్సులో ఆయన పాల్గొని పలు సూచనలు చేశారు. పరిశోధనలతో ఆహార విలువలు పెరుగుతాయని, నిరంతరం సాగించాలని సూచించారు.

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Media / Press Coverage Clip

14. 1-2 minutes video of the Event:

15. Benefit in terms of learning/Skill/Knowledge obtained:

This Guest Lecture is promoted awareness on the applications of Machine Learning in Food Engineering and lead the students to find the problems in food services, food quality and develop solutions to support food Industry.

16. Expenditure Amount: 10000/-

17. Remarks:

18. Experiences and Output of the Session:

Machine learning has emerged with big data technologies, data science , Artificial Intelligence and high-performance computing to create new opportunities for solving real world problems.