

IGNITE 2023



A DAILY NEWSLETTER

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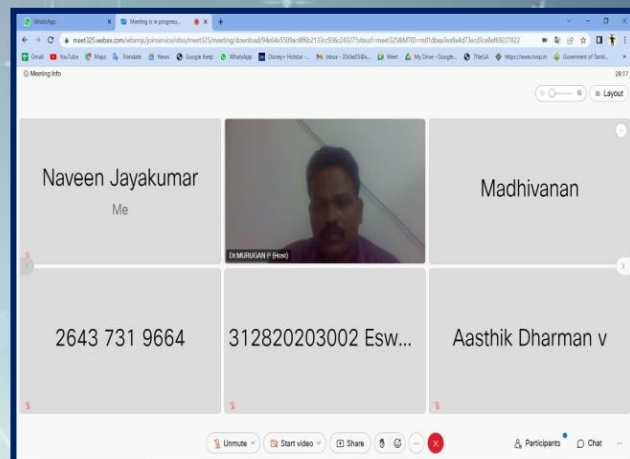
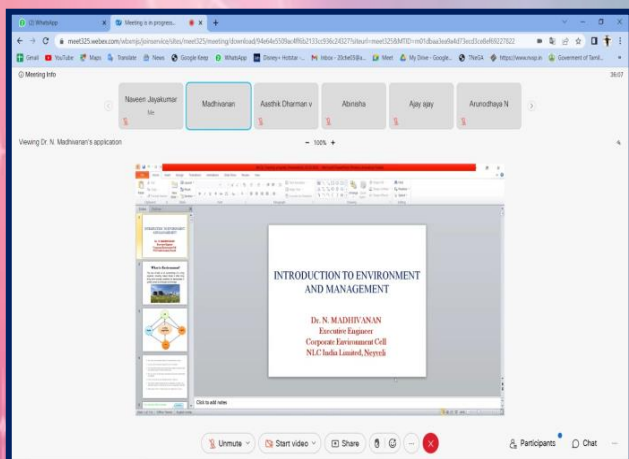
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WEBINAR



The Department of Chemical Engineering has organized a **Webinar on Environmental Management in Mines and Thermal Power Plants**. Dr. N. Madhivanan, Executive Engineer, Corporate Environment Cell, NLC India Limited, Neyveli was the guest speaker. He discussed about the future impacts of mines and thermal power stations on the environment.

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STUDENT ACHIEVEMENT



Sooner or later, those who win are those who think they can.

Mahima Sree S, II year student, Department of Information Technology has won **First Prize** in the **Extempore** event in the National Level Technical Symposium Voltronix - 23 organized by Hindustan Institute of Technology and Science, Chennai on 29th April 2023.

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STUDENT ACHIEVEMENT



Winners don't wait for chances, they take them

Swetha. M and Yashwarthini. M, II year students, Department of Computer Science and Engineering have won **Second Prize** in the event of **Technical Connections** in the National Level Technical Symposium Voltronix - 23 organized by Hindustan Institute of Technology and Science, Chennai on 29th April 2023.

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STUDENT – FACULTY ACHIEVEMENT



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DETECTION AND VOICE ASSISTANCE FOR VISUALLY IMPAIRED

Sri Sai Krishnaa R C¹, Mukesh Kanna G², Sarath Kumar D³, Mrs. Shimona S⁴

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ABSTRACT

This project involves using Android Studio to create an Android app that helps visually impaired people find goods and money while providing audio services. The application uses computer vision algorithms to find and find money, and voice assistants allow the system to transmit information to the user. The application has the ability to develop the independence of the visually impaired, who can use it to perform daily tasks that require visual acuity. Product research, financial research, voice assistance, visually impaired, Android Studio and applications are the main topics related to this project. The use of the application is discussed and the results of the tests and evaluations for the visually impaired are presented. The results of the study show that the application is useful for helping visually impaired people in their daily work. Overall, the project demonstrates the potential of combining computer vision and audio technology to create systems that can assist visually impaired people in their daily lives. The app has the potential to improve the quality of life of the visually impaired, making them more self-confident and independent.



Sri Sai Krishna. R. C, Mukesh Kanna. C and Sarath Kumar. D, IV year students, Department of Computer Science and Engineering have published a paper on **Detection and Voice Assistant for Visually Impaired** under the guidance of Mrs. Shimona. S, AP in the International Journal of Progressive Research in Management and Science Vol. 3, NO 4, pp. 926-931, ISSN 2583-1062 in the month of April 2023

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STUDENT – FACULTY ACHIEVEMENT



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Profitability and Yield Prediction on Agricultural Crops of India

Arunkumar. S¹, Harish B¹, Divakar S¹, Uma Devi. G^{*2}

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ABSTRACT:

Across the world India is the second largest having a population of more than 1.3 billion people. Many people are dependent on agriculture but the sector lacks efficiency and technology especially in our country. By bridging the gap between traditional agriculture and data science and machine learning, effective crop cultivation can be achieved. In developing countries, farming is considered as the major source of revenue of many people. In modern years, agricultural growth is engaged by several innovations, environments, techniques and civilizations. In addition, the utilization of information technology may change the condition of the decision making and thus farmers may yield the best way. People in various countries especially the ones that are in developing phase have been practicing agriculture for years but the results have never been satisfying due to various factors. These factors affect the crop yield. To fulfill the needs of around 1.3 billion people of our country, it is very important to have a good yield of crops. Due to factors like soil type, precipitation, seed quality, lack of technical facilities etc, the crop yield is directly influenced. Thus, the focus is on implementing crop yield prediction systems by using the Machine Learning techniques by doing analysis on agricultural datasets. The advancement in the field of Machine Learning and Data Science has helped in the growth of the improving gains in agriculture. Machine learning is one of the technologies that is benefitting the farmers to minimize the losses in the farming by providing rich and helpful recommendations and insights about the crops. Application of machine learning in the field of agriculture allows more efficient and precise farming with less manpower with very high-quality production.

Key words: CSV Dataset, Machine learning and Crop profitability prediction

1. INTRODUCTION

Across the globe India is the second largest country having a population of more than 1.3 Billion. Many people are dependent on agriculture but the sector lacks efficiency and technology especially in our country. By bridging the gap between traditional agriculture and data science, effective crop cultivation can be achieved. In developing countries, farming is considered as the major source of revenue for many people. In modern years, agricultural growth is engaged by several innovations, environments, techniques and civilizations. In addition, the utilization of information technology may change the condition of decision making and thus farmers may yield the best way. For the decision making process, data mining techniques related to agriculture are used. Data Mining is the process of analyzing, extracting and predicting the meaningful information from huge data to extract some pattern. This process is used by companies to turn the raw data of their customer to useful information. The process of Data Mining includes first selection of data followed by pre-processing of data and then transforming the data to get patterns which can then be used to predict useful insights. Preprocessing includes finding outliers and detecting missing values whereas transformation finds the correlation between objects. Applying the data mining techniques on historical climate and crop production data several predictions can be made on the basis of knowledge gathered which in turn can help in increasing crop productivity



Arunkumar S, Harish B & Divakar S, IV year students, Department of Computer Science and Engineering have published a paper on **Profitability and Yield Prediction on Agricultural Crops of India using ML** under the guidance of Mrs. Uma Devi, AP in the International Journal of Research Publication and Reviews, a SJIF Indexed Journal, Vol. 4, NO 4, pp. 4506-4514, ISSN 2582-7421 in the month of April 2023

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STUDENT PARTICIPATION



Kirthick Lochan G B, Hariprasath D and Akshaya Balaji A, II year students, Department of Mechatronics Engineering have presented a paper on **Design and Development of Nurse BOT using Microcontroller** at the International Conference on Robotics and Communication Technology (ICRCT - 2023) organized by the Department of Electronics and Communication Engineering, Peri Institute of Technology, Chennai on 28th April 2023.

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STUDENT PARTICIPATION



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Certificate of Participation

This certificate is awarded to **Mohana krishnan K, III Year, IT**

for participating in **SMART AGNI HACKATHON - 2023**

organized by **AGNI PRIDE ASSOCIATION**

MRS.T.KALAITHANGAM
AP/CME
SAH Coordinator

DR.J.P.JOSH KUMAR
ASP/ECE
PRIDE Coordinator

Dr.SRINIVASAN ALAVANDAR
Principal



Mohanakrishnan K, III year student, Department of Information Technology has participated in the **SMART AGNI HACKATHON - 2023** organized by **AGNI PRIDE ASSOCIATION** in the month of April 2023.

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FACULTY PARTICIPATION



Ms. Prinslin. L, Assistant Professor, Department of Computer Science and Engineering has attended the **Webinar** on the topic **Getting Started with Internet of Things** conducted by Mr. Pranav Pai Vernekar, Co-founder and CEO of the award winning Internet of Things and Machine Learning platform -BOLT, IoT on 11th April 2023.

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INTERNSHIP



Boopalan M, III year student, Department of Electronics and Communication Engineering has completed a 2 week **Internship** at **Majestic Technologies**, Chennai from 11th April to 24th April 2023.

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INTERNSHIP



Gokul K, III year student, Department of Electronics and Communication Engineering has completed a 2 week **Internship at Majestic Technologies, Chennai** from 11th April to 24th April 2023.

DEPARTMENT ACTIVITY



The department of Computer Science & Engineering has conducted **Group Discussion** on the topic **Generative AI** and was co - ordinated by Mrs. Uma Devi, AP for the II year students on 28th April 2023. Students developed knowledge on how the AI is being implemented and how it is replacing the human work.

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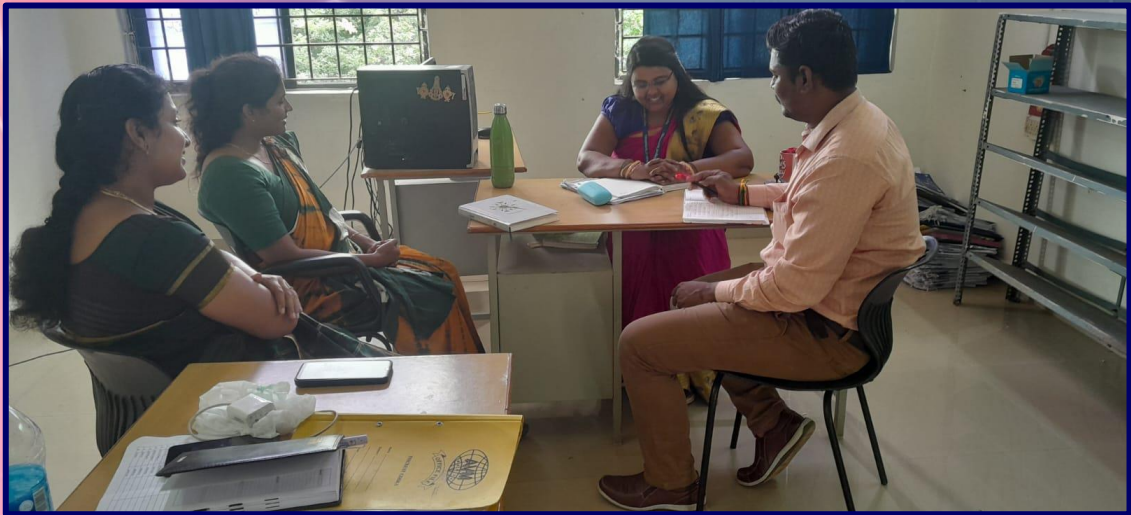


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BRANDING AND PROMOTION ACTIVITY



Dr. Arul Kulandaivel, Head, Department of Science and Humanities has met the faculty members of the Department of Artificial Intelligence and Data Science on 3rd May 2023. He encouraged to promote the department activities and events among the students and parents for wider reach. Various plans, strategies, referral schemes & the importance of promotion and branding activities for admissions were discussed.

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