

Activity Report (news bulletin) of IT Dept. for August 2022

1. Expert Lecture/Seminar/Courses Organized by Department during August 2022:

Dept. of Information Technology had organized an online session on “Beginners Guide to Corporate World” by Ms. Surbhi Desai, Sr.Manager, Learning and Development, Extentia Information Technology, Pune on 19th Aug 2022.

2. Papers Presented/Published in the Journal by Staff during August 2022:

Title of Paper: Machine learning based random forest approach for malware detection: a systematic review

Name of Journal: Journal of the Maharaja Sayajirao University of Baroda

Volume and Issue: Volume-56, No.1(VII) 2022

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Names of Authors: Prof. Pragati V. Pandit

Abstract: Malware detection is a crucial part of security in data mining today. With increasing demands for anti-malware tools, different malware methodologies are proposed which are not adequate for the evolutionary and complex nature of malware. It is harder to recognize quickly changing malware proposing the need for advanced techniques. Addressing the issue of current malware techniques, this paper proposed advanced machine learning techniques for efficient malware detection. Modern innovation in data mining has used different approaches to detect and classify malware detection. We have focused on the study of different algorithms and malware detection techniques to propose a random forest approach. It contributes to exploring the efficiency of the random forest technique in machine learning (ML)-based malware detection. A training dataset for classification is collected from Kaggle Microsoft and evaluated for the proficiency of the ML model in intrusion detection based on network traffic.

Keywords: Data mining, Malware detection, Machine learning, Signature-based

3. Papers Presented by Students during August 2022: **NIL**

4. Industrial Training/Workshop done by Staff during August 2022:

Dr. Preeti Bhamre completed one year course on “Engineering Education Research” conducted by Dr. Pratibha Nagabhushan, Australian Catholic University and Dr. Sohumi Sohoni, Milwaukee School of Engineering organized by Indo Universal Collaboration for Engineering Education (IUCEE).

5. Industrial Visit organized by department for student during August 2022: **NIL**

6. Training and Placement Cell during August 2022:

Sr. No.	Name of Students Selected	Name of the Company
1	Omkar Gunjal	eQ Technologic Pvt. Ltd, Pune
2	Ujjwal Jha	
3	Anuja Suryawanshi	Bosch Limited
4	Ashish Deshpande	
5	Dhiraj Kothawade	
6	Rupali Bari	
7	Sakshi Aware	
8	Sonali Gatkal	

7. Books Purchased in Central Library during August 2022: **NIL**

8. Forthcoming event in the month October and November 2022:-

9. Achievements:

Prof. Yogita Shewale attended the Grand Final Round of Smart India Hackathon 2022 on 25th and 26th August as a mentor at VNR Vignana Jyothi Institute of Engineering and Technology (VNRVJIET), Hyderabad. The team “AADhar” won the first prize of One Lakh Rupees.