

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

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

Dept. of Information Technology had organized an online session on “Career Opportunities in CyberSecurity and Placement Tips” by Mr. Pratik Kadam, Software Developer - II, Security Labs Quick Heal Technologies Ltd, Pune on 17<sup>th</sup> Sept.2022.

Iteron Club of Information Technology Department of K.K.Wagh Institute of Engineering Education and Research, Nashik had organized a Panle Discussion on “Scope and Opportunities in the IT sector” on 24<sup>th</sup> September 2022. Mr. Amol Bagul,Senior Consultant,T-Systems ICT India Pvt. Ltd Pune, Ms. Swathy Babu,Engineering Lead -Consulting, Persistent Systems (PSPL), Pune, Ms. Karishma Shirsath,Senior Associate, PwC (PricewaterhouseCoopers), Pune, Ms. Stuti Gupta,Technical Project Manager, Areya Technologies, Pune and Mr. Tanmay Thakar,Principal Software Engineer, Druva Technologies, Pune were the eminent panelists for the discussion.

During the panel discussion, Ms. Stuti Gupta discussed scope of Sales Force technology. She also discussed various opportunities for IT engineers in Sales Force technology. Mr. Tanmay Thakar explore various subjects that students learn during engineering which help them to build professional careers. He also explained the roal of IT engineers in emerging technology like AI, ML and DATA SCIENCE. Mr. Amol Bagul explore role of IT Engineer in the Cloud Computing Domain also explained the importance of placement during final year. Ms. Karishma Shirsath highlighted the importance of higher studies after few years of work experience. Ms. Swathy Babu explained the importance of Professtional certification like JAVA during enginerring.



Panle Discussion on “Scope and Opportunities in the IT sector” on 24<sup>th</sup> September 2022

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

Title of Paper: Malware Detection models based on Random Forests Approach

Name of Conference: Online International Conference (Multidisciplinary) on E- Education, E-Business, E-Management and E- Learning

Organized by: Institutes of Commerce & Management, Shri Jagdishprasad Jhabarmal Tibrewala University Vidyanagri, Chudela Jhunjhunu, Rajasthan

Dates : 27<sup>th</sup> & 28<sup>th</sup> Aug. 2022

Names of Authors: Prof. Pragati V. Pandit

Abstract — The ability to detect malware that has never before been encountered and the capacity to re-train and adapt over time as threats evolve are just a couple of the promising advantages that machine learning-based malware detection models, trained on features statically extractable from binary executable files, offer. Although it is understood in practice that malware detection models will inevitably degrade in perform once over time due to the emergence of novel malware threats, many academic studies of machine learning-based malware detection take into account and evaluate performance on datasets that do not evolve with time. In order to examine how machine learning-based malware detection models degrade over time from training, we used a huge dataset of features derived from malware executable files in the extremely popular Portable Executable format that are orderable by

time of first appearance. We highlight the relative strength of Random Forest to sustain predictive accuracy over time among the several models we trained and subsequently assessed on later occurring subsets of the dataset. The significance of the results for PE malware detection methods is then discussed. We then consider in greater detail Random Forest-based models for malware detection, taking into account Random Forest hyper parameter choices to achieve better maintenance of performance.

Keywords— malware detection, random forest, artificial intelligence, data mining

3. Papers Presented by Students during September 2022: **NIL**
4. Industrial Training/Workshop done by Staff during September 2022:
5. Industrial Visit organized by department for student during September 2022: **NIL**

6. Training and Placement Cell during September 2022:

Sr. No.	Name of Students Selected	Name of the Company
1	Harshit Malviya	FinIQ Consulting India Pvt Ltd
2	Pooja Satao	
3	Sneha Bachhav	
4	Aneesh Patil	Cybage IT Service Management Company, Pune
5	Ninad Kasar	
6	Janhavy Bhalerao	
7	Mosmee Patil	

7. Books Purchased in Central Library during September 2022: **NIL**
8. Forthcoming event in the month October and November 2022:-
9. Achievements:

Prof. Rupali Bora received the Best Teacher-2022 Award on 4<sup>th</sup> September 2022 from Mahavir International-Nashik Group.

HOD, IT