

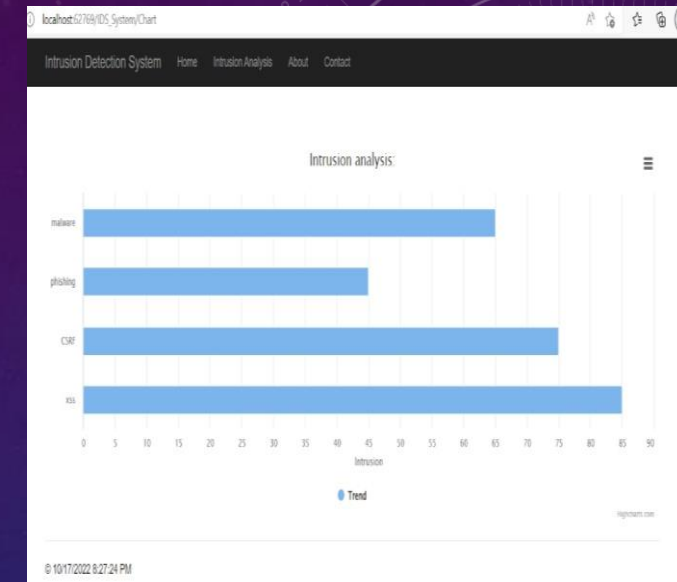
Intrusion Detection System Using Machine Learning Algorithm

Introduction :

- ❖ The "Network Intrusion Detection System" monitors a network of computers, looking out for potentially risky actions include obtaining confidential information or corrupting/hacking networks.
- ❖ The performance has been elevated using a variety of techniques.
- ❖ For the evaluation of IDS, we have used Random Forest machine learning technique.
- ❖ We detect the intrusion and send an email to the administrator

Work Completed :

- ❖ **Trained the Dataset :**
 - Trained a predictive model that can discriminate between good connections and harmful connections, by training KDD dataset using Random forest approach.
- ❖ **Developed a Website :**
 - Our website will let the user add intrusion values which further detects the attack type.
 - Shows graphical representation of intrusion percentage.
 - Application detects the attacks fall under below categories:
 - DOS, R2L , U2R, Probing.



Technologies :

- Dataset Used: KDD Cup 1999 dataset
- Website: .net
- Database: mysql
- Machine learning Technique: Random Forest using python.

Yet To Complete:

- ❖ **Website :**
 - Integrate detection system with Application
 - Introduce intrusion
 - Capture packets by using Wireshark
 - Store the values in CSV
 - Depict the intrusion and sent an email to user.

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| Add Intrusion | | | |
|----------------|----------------------|---------------------|---|
| Intrusion name | Intrusion percentage | Datetime detected | |
| malware | 65 | 10/08/2022 | Edit Details Delete |
| phishing | 45 | 12/01/2021 | Edit Details Delete |
| CSRF | 75 | 10/20/2022 | Edit Details Delete |
| xss | 85 | Oct 16 2022 10:30PM | Edit Details Delete |

© 10/17/2022 8:26:20 PM