EXPOSYS DATA LABS-(PROJECT SHEET)

Software Development

DESCRIPTION

Let us consider a case where the user sends a text or file from his phone to his friend. The risk of the data being accessed by a third party is high when the data enters the cloud platform. Hence a new method to secure the messages/file is to be done either by building a new algorithm or by modifying the existing one which can give more security and consume less time. The identity of the user must also be verified by using the authentication, verification and validation methodologies.

Tasks:

- 1. Try to build or change an existing algorithm to secure message send by the user based on efficiency.
- 2. Confirm the identity of the user by entity authentication using verification and validation.

Contestants should use python and ML to perform this Task.

IOT Projects:

DESCRIPTION

Morse code has been employed as an assistive technology, helping people with a variety of disabilities to communicate. Morse can be sent by persons with severe motion disabilities, as long as they have some minimal motor control. An original solution to the problem that caretakers have to learn to decode has been an electronic typewriter with the codes written on the keys.

Morse code can also be translated by computer and used in a speaking communication aid. An important advantage of Morse code over row column scanning is that once learned, it does not require looking at a display. Also, it appears faster than scanning.

Task:

Encryption and Decryption between users in Morse using a Flashlight.

Steps:

- 1. Write a code to encrypt text to Morse.
- 2. Create a link (program or interface (no external components)) between Morse and a flashlight and that should blink with respective to Morse.
- 3. Create another program to record the flash and that flash-toggling should be again reconverted into Morse and then decrypted into text.

Contestants can use python (or) Java languages to perform this Task.

Full-Stack Developer

DESCRIPTION

The Distributed Denial of Service (DDoS) attack is an attack poses a server threat to the internet. It is difficult to find the exact sign of attacking. Moreover, it occurs when a huge number of users occasionally access the target at the same time. Using the entropy computing you should find the accuracy of an attack.

TASK

Write a program using entropy computing to detect DDOS attack.

Steps:

- 1. Create a algorithm for sending data packets to the server.
- 2.Find Accuracy.

Data Science:

DESCRIPTION

Diabetes is a type of chronic disease which is more common among the people of all age groups. Predicting this disease at an early stage can help a person to take the necessary precautions and change his/her lifestyle accordingly to eitherprevent the occurrence of this disease or control the disease(For people who already have the disease).

Task:

- 1. Prepare the data-set using several methods to train the model.
- 2. Build a model which can give high accuracy of predicting the disease.

Android app Developer:



MEETUP - An App based on the common interests

Let's assume if you like Football or Cricket so much and you can find some unknownhaving the same interests.

You can send Hello to him/her and can chat as well. Fantastic. Let's Jump into the Project Ideas

EXPOSYS DATA LABS

- You can Select the Interest from the menu
- Find the person with the common interests and send him Hello request
- You can get so much information about your interests.
- Chat with Friends

You can build this App using Android Studio.

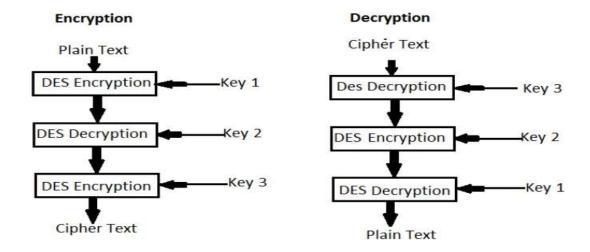


Cyber Security:

1) Encryption of Image Using Triple DES

In today's world almost all digital services like internet communication, medical and military imaging systems, multimedia system needs a high level security. There is a need for security level in order to safely store and transmit digital images containing critical information. This is because of the faster growth in multimedia technology, internet and cell phones. Therefore there is a need for image encryption techniques in order to hide images from such attacks. In this system we use Triple DES (Data Encryption Standard) in order to hide image. Such Encryption technique helps to avoid intrusion attacks.

Language: Python Programming



Digital Marketing

1. Create your own strategy to promote a company around India.

Examples: Companies like transportation/any start-ups/college/training institute/product-oriented promotion

Content Writer

Task:

Create a content strategy for a client/product

- Keyword density.
- Meta Tags
- Body Tags
- Alt Tags
- URL Structure
- Internal/External linking

EXPOSYS DATA LABS

Web Development

Task:

Create a Multi-Page Responsive Website.

UI/UX Design



- 1. Design an app that helps you use your screens less
- 2. Find a feature in an application that frustrates you. Redesign it.

Digital Marketing

1. Create your own strategy to promote a company around India.

like

institute/product-oriented promotion.

Companies

Examples:

EXPOSYS DATA LABS

transportation/any

start-ups/college/training

Example2: How can you promote the following links you can show as a Reference toother companies.

SocialLinks:

www.exposysdata.com

https://www.youtube.com/channel/UCCdSuhhzWqmj9h9uyEl-JSA

https://www.facebook.com/Exposysdatalabs/

https://www.linkedin.com/company/13574296/admin/

https://www.instagram.com/exposysdatalabs/

Content Writer Task:

Create a content strategy for a client/product □

Keyword density. □1. Meta Tags

- a) Body Tags
- b) Alt Tags
- c) URL Structure
- d) Internal/External linking

Photography/Short film Maker/Ad Maker:

1. Create Ad for Promotional purpose:

Usecase:

Take Exposys Data Labs Virtual internships Information create Short video for Promotions. Meanwhile apply your creativity make Advertisement

EXPOSYS DATA LABS

HR:

1. Collect Across india Engineering college Deatails which includes total 28 States.

| 1. Andhra Pradesh | 19. Odisha |
|----------------------|---|
| 2. Arunachal Pradesh | 20. Punjab |
| 3. Assam | 21. Rajasthan |
| 4. Bihar | 22. Sikkim |
| 5. Chhattisgarh | 23. Tamil Nadu |
| 6. Goa | 24. Telangana |
| 7. Gujarat | 25. Tripura |
| 8. Haryana | 26. Uttar Pradesh |
| 9. Himachal Pradesh | 27. Uttarakhand |
| 10. Jharkhand | 28. West Bengal |
| 11. Karnataka | A. Andaman and Nicobar Islands |
| 12. Kerala | B. Chandigarh |
| 13. Madhya Pradesh | C. Dadra and Nagar Haveli and Daman and Diu |
| 14. Maharashtra | D. Jammu and Kashmir |
| 15. Manipur | E. Ladakh |
| 16. Meghalaya | F. Lakshadweep |
| 17. Mizoram | G. National Capital Territory of Delhi |
| 18. Nagaland | H. Puducherry |
| | |

| S.No | College Name | Principal Name | Principal Email | TPO Name | TPO Email |
|------|-----------------|-------------------|--------------------|----------|-----------|
| | | | | | |

Digital Content promotor/Digital Media Promotor:

How to promoto Company Links Like Follow, Share. Youtube Channels and Subcribe through Pan India/World Wide Using own Stretagies. Examples the following Links can be Use user Own digital media promotion Stretagies.

2.Come with Solution all Digital media promotion and channels and increasethe followers.

YouTube

Instagram

Pinterest.

Twitter.

LinkedIn.

Facebook

Social Links:

http://www.exposysdata.com/

https://www.youtube.com/channel/UCCdSuhhzWqmj9h9uyEl-

JSAhttps://www.facebook.com/Exposysdatalabs/

https://www.linkedin.com/company/13574296/admin/

https://www.instagram.com/exposysdatalabs/

Business Development Executive:

- 1. Build contacts with potential clients to create new businessopportunities
- 2. Keep prospective client database updated
- 3. Make cold calls for new business leads
- 4. Support in writing new business proposals
- 5. Maintain knowledge of all product and service offerings of thecompany
- 6. Arrange meetings for senior management with prospective clients
- 7. Follow company guidelines and procedures for acquisition of customers, submission of tenders etc.