



# TECH INTERN

*grow with us !!*

INTERNSHIP TASK LIST 2023

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WEB DEVELOPMENT

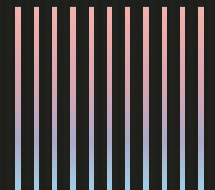
DATA SCIENCE AND  
MACHINE LEARNING

C & C++ PROGRAMMING

ANDROID & IOS DEVELOPMENT

TECHNICAL CONTENT WRITING

CAMPUS AMBASSADOR



# NOTE:

**FOR CERTIFICATION:** YOU NEED TO COMPLETE ALL OF THE FIRST 3 LEVELS .

**FOR SWAGS:** *YOU NEED TO COMPLETE ALL OF THE 5 LEVELS.*

## SUBMISSION PROCESS:

- YOU NEED TO CREATE A GITHUB REPOSITORY NAMED:TECH\_INTERN23
  - UPLOAD ALL THE NECESSITIES IN THE REPO
    - CREATE A README FILE
  - PASTE THE LINK IN THE GOOGLE FORM PROVIDED



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# WEB DEVELOPMENT

## LEVEL 1:

Create a landing page of  
Passport Seva Kendra using  
only HTML, CSS and  
Bootstrap(sos).



# WEB DEVELOPMENT

## LEVEL 2:

Create a **PORTFOLIO WEBSITE** using only **HTML**, **CSS** and **JAVASCRIPT**. Also add features so that people can download your resume. Website should contain feedback area in it.



# WEB DEVELOPMENT

## LEVEL 3:

Create a BOOKSTORE WEBSITE using only HTML, CSS and JAVASCRIPT. Also add features so that people can check the price of books. Website should be responsive.





# WEB DEVELOPMENT

## LEVEL 4:

Create a Responsive Grocery Store Website using MERN stack.

NOTE: If similar code is found you are subject to disqualification.





# WEB DEVELOPMENT

## LEVEL 5:

Create a BLOGGING WEBSITE using PHP and other necessary tools.

NOTE: If similar code is found you are subject to disqualification.

# Blogger

# DS & ML

## LEVEL 1:

Predict the Prices of different sports cars from various manufacturers using machine learning algorithms. The accuracy should be more than 80%.

The dataset link is

<https://www.kaggle.com/datasets/rkia/ttisak/sports-car-prices-dataset>



# DS & ML

## LEVEL 2:

You are given a dataset  
(<https://www.kaggle.com/datasets/fe-desoriano/heart-failure-prediction>)  
where you need to predict whether a  
person will have heart disease or not.  
Use various Machine learning  
algorithms and the accuracy should be  
more than 80%.



# DS & ML

## LEVEL 3:

Make a Artificial Neural network model of deep learning to predict the weather condition (summary) from the weather history dataset.

<https://www.kaggle.com/datasets/muthuj7/weather-dataset>



# DS & ML

## LEVEL 4:

Use transfer learning concept of Convolution neural network CNN to prepare a German traffic sign detection model. The total model should be implemented in a website through flask.

<https://www.kaggle.com/datasets/meowmeowmeowmeowmeowmeow/gtsrb-german-traffic-sign>





# DS & ML

## LEVEL 5:

Prepare a English to French translation website where user will give English language and French translation will be produced. This translation website should be created by training the dataset from scratch and no api should be used to create the model. Use the concept of Natural Language Processing NLP, transformers, etc.

<https://www.kaggle.com/datasets/dhruvildave/en-fr-translation-dataset>



## LEVEL 1:

Write a C or C++ code to implement quick sort, heap sort, shell sort, tree sort.



## LEVEL 2:

Write C or C++ code to implement dijkstra algorithm, kruskal algorithm and prim's algorithm in graph.

## LEVEL 3:

Assume that you have an array of integers and you want to find the second-largest element in the array. Write a C++ or C program to do this in a single pass without sorting the array.

## LEVEL 4:

Assume that you have a binary search tree (BST) with unique integer values stored in each node. Write a C++ or C program to find the maximum width of the tree, which is the maximum number of nodes that can appear at any level in the tree. The program should have a time complexity of  $O(n)$ , where  $n$  is the number of nodes in the tree.

## LEVEL 5:

Assume that you are developing a game in which players can control different characters, such as warriors, archers, and mages. Each character has a set of abilities that they can use during gameplay. Write a C++ program to model this game using object-oriented programming concepts. The program should have the following classes:

A.Character: This class should have attributes such as name, health, and level, as well as a virtual function for using abilities.

B.Warrior, Archer, and Mage: These classes should inherit from the Character class and have their own unique abilities.

C.Ability: This class should have attributes such as name, damage, and mana cost, as well as a virtual function for executing the ability.

The program should allow the player to create and control different characters, select and use abilities during gameplay, and display the current status of the game.

# ANDROID/IOS DEV

LEVEL 1:

. **Tic-Tac-Toe Game:** Develop a classic Tic-Tac-Toe game where two players can play against each other on the same device.



# ANDROID/IOS DEV

LEVEL 2:

**Recipe App:** Create an app that displays a list of recipes, and allows users to view the ingredients and instructions for each recipe.



# ANDROID/IOS DEV

LEVEL 3:

**Quiz App:** Create a quiz app that allows users to answer multiple-choice questions on various topics and provides feedback on their performance.







# ANDROID/IOS DEV

## LEVEL 4:

**Create a photo-sharing app: This task will involve integrating with cloud storage services like Google Drive or Dropbox, implementing social sharing features, and using image eeeeeee processing libraries like Glide or Picasso**



# ANDROID/IOS DEV

Level 5:

**Build a music player app: this task will help you learn about media playback, implementing custom UI components, and handling user preferences.**

# CONTENT WRITING

## LEVEL 1: Crypto ETFs



# CONTENT WRITING

## LEVEL 2:

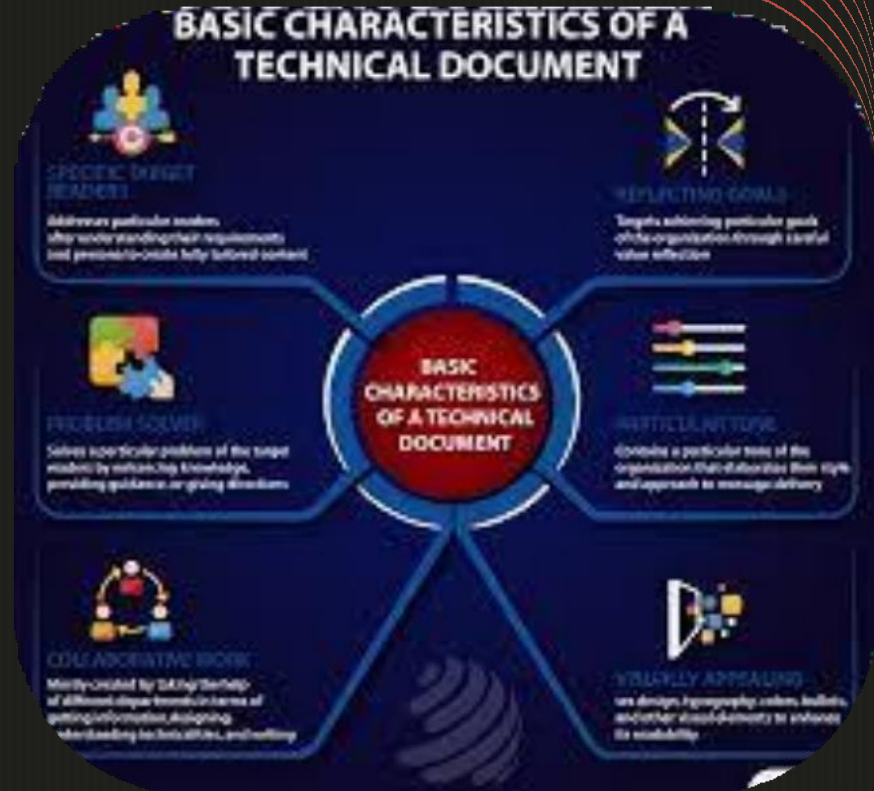
Singularity NET (AGIX)



# CONTENT WRITING

## LEVEL 3:

Secrets for Cracking  
Interviews and getting  
desired jobs



# CONTENT WRITING

## LEVEL 4:

PolkaDots Price  
Prediction





# CONTENT WRITING

## LEVEL 5: DeFi Crypto



# CAMPUS AMBASSADOR

## MONTH 1:

- FOLLOW AND SUBSCRIBE ALL TECH INTERN SOCIAL MEDIA PLATFORM
- SHARE OFFER LETTER ON LINKEDIN MENTIONING YOUR EXPECTATION FROM INTERNSHIP PROGRAM
- CREATE ONE MEME/POSTER ON ANY TECH NEWS AND SHARE IT ON YOUR LINKEDIN HANDLE.

**CAMPUS  
AMBASSADOR  
PROGRAMS**

**FOR  
CODERS**  
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# CAMPUS AMBASSADOR

## MONTH 2:

- READ HOW TO CREATE NICE RESUME AND WHAT TO INCLUDE AND WHAT NOT TO INCLUDE
- CREATE AND SHARE YOUR RESUME ON LINKEDIN
- SHARE POST OF TECH INTERN ON EVERY SOCIAL MEDIA

