Tech Connect workshops and event 2022-23

1- Machine Learning workshop
Using python libraries in collab

About Machine learning-Machine learning is a branch of artificial intelligence that involves training computer algorithms to learn patterns and make predictions based on data. It is a rapidly growing field that has become increasingly popular in recent years due to the abundance of data available and the exponential growth of computing power.
The goal of machine learning is to create models that can learn and improve from experience, without being explicitly programmed.

Agenda-To deliver all the below stated topics in the most comprehend way
1. Introduction to Machine Learning
*   Overview of machine learning and its applications
*   Types of machine learning (supervised, unsupervised, reinforcement)
*   Common terminology and concepts (data sets, features, models, algorithms, etc.)
2. Data Preprocessing and Visualization
*   Cleaning and preparing data sets for machine learning
*   Exploratory data analysis (EDA) techniques and tools
*   Visualization techniques to identify patterns and relationships in data
3. Supervised Learning
*   Overview of supervised learning algorithms (linear regression, logistic regression, decision trees, random forests, etc.)
*   Steps involved in developing a supervised learning model (data preprocessing, feature selection, model training, evaluation, optimization)
4. Unsupervised Learning
*   Overview of unsupervised learning algorithms (clustering, dimensionality reduction, anomaly detection, etc.)
*   Steps involved in developing an unsupervised learning model (data preprocessing, feature extraction, model training, evaluation, optimization)
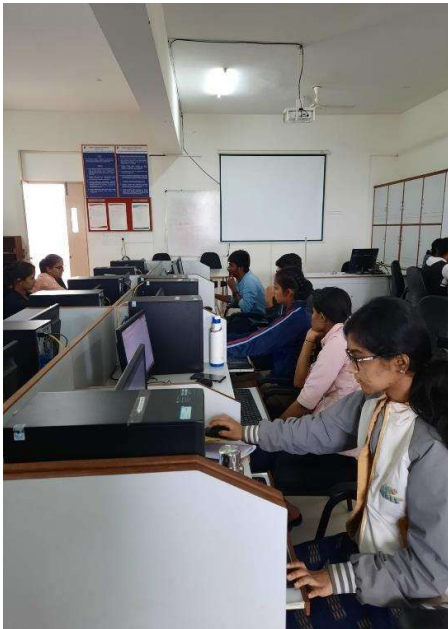
Summary- The workshop was successful in meeting all its agendas and was enable to reach 30 interested students of third semester by President of TechConnect Gagana P(7th sem) and Design Core Member of TechConnect Spoorthi K K (7th sem)
Executed for 10 hours with the participates

       10 hours in planning the workshop

       8 hours in testing the code and documentation

       2 hours for conducting test and solving queries

2 Front end web development workshop

About the workshop-Front-end web development refers to the practice of creating the user interface and user experience of a website or web application. It involves designing and building the visual elements of a website, such as the layout, typography, colors, and images, as well as the interactive elements, such as buttons, forms, and animations.

Front-end developers use a combination of HTML, CSS, and JavaScript to create the web pages that users see and interact with. HTML provides the structure and content of the page, CSS is used to style and layout the content, and JavaScript is used to add interactivity and dynamic behavior to the page.

Agenda-

1. Introduction to Web Development

- Overview of web development and its importance

- The difference between front-end and back-end web development

- The basics of HTML, CSS, and JavaScript

2. HTML Fundamentals

- Introduction to HTML

- Basic structure of an HTML document

- HTML tags and attributes

- Creating links, images, and tables in HTML

3. CSS Fundamentals

- Introduction to CSS

- Basic syntax of CSS

- CSS selectors and properties

- CSS box model and layout

4. Responsive Web Design

- Introduction to responsive web design

- Designing for multiple screen sizes

- Creating responsive layouts using CSS

- Introduction to CSS frameworks like Bootstrap

5. Project Work

- Hands-on exercises and projects to reinforce learning

- Building a simple website from scratch

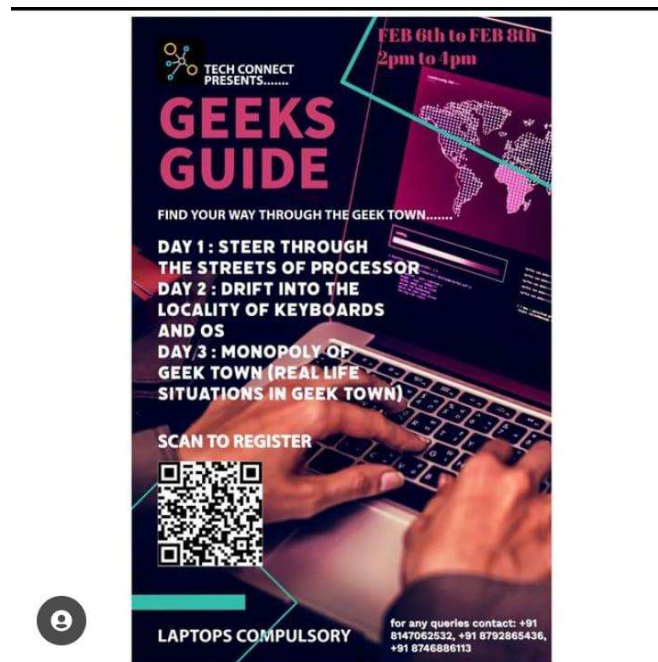- Incorporating responsive design and accessibility features into the website.

Summary

The workshop was successful in meeting all its agendas and was enable to reach 30 interested students of fifth semester carried out effectively by member of TechConnect Amulya S of fifth semester
Executed for 12 hours with the participates
       10 hours in planning the workshop
       8 hours in testing the code and documentation

3   Geeks guide

Geek Town is a website and online community that provides news, reviews, and opinions on various aspects of geek culture. The website covers a wide range of topics including innovations and technology. Overall, Geek Town is a valuable resource for anyone interested in geek culture, offering a wealth of information, entertainment, and community engagement.

Agenda- for three days workshop were as follows

1 Steer throught the streets of Processors

2 drift into the locality of keyboards and os

3 monopoly of geek town(real life situations in Geek town)

Summary – the workshop was conducted from 6th feb 2023 to 8th feb 2023 by Bharath M, D V Raksha and Swasthi A Anekerof third sem who were also the crucial members of TechConnect

Executed for 6 hours with the participates
        4 hours in planning the workshop
        2 hours for documentation

4. Technical Damaka

Technical Damaka was an fun filled event conducted to bring in awareness of the branch along side the activities engaging all the semester students of the Department of ECE

Agenda-

1 To unite all the semester student of department of Electronics and Communication Department

2 To bring awareness about our branch

3 To development cognitive and team building skills

Summary- this one day event was successful in meeting all the agendas and in building a strong bon between the students of ECE. The coordinates of this event were

1. Gagana P
2. Spoorthi K K
3. Shwetha
4. Somshekar