



WTA LAB-1

IT-254 Minors

HTML-Exercise

Name: Abhishek Chavan

Roll Number: 191MT001

Registration Number: 191064

Course Code: IT254

Course Name: Web technologies
and applications (Minor)

1. Create a gallery of clickable images of yourself, your projects, campus etc that lead to individual pages giving suitable description/details for each image.



The photos are circle cropped, and are clickable which lead to different pages. When clicked on the image of college, it opens college.html file and displays the content.

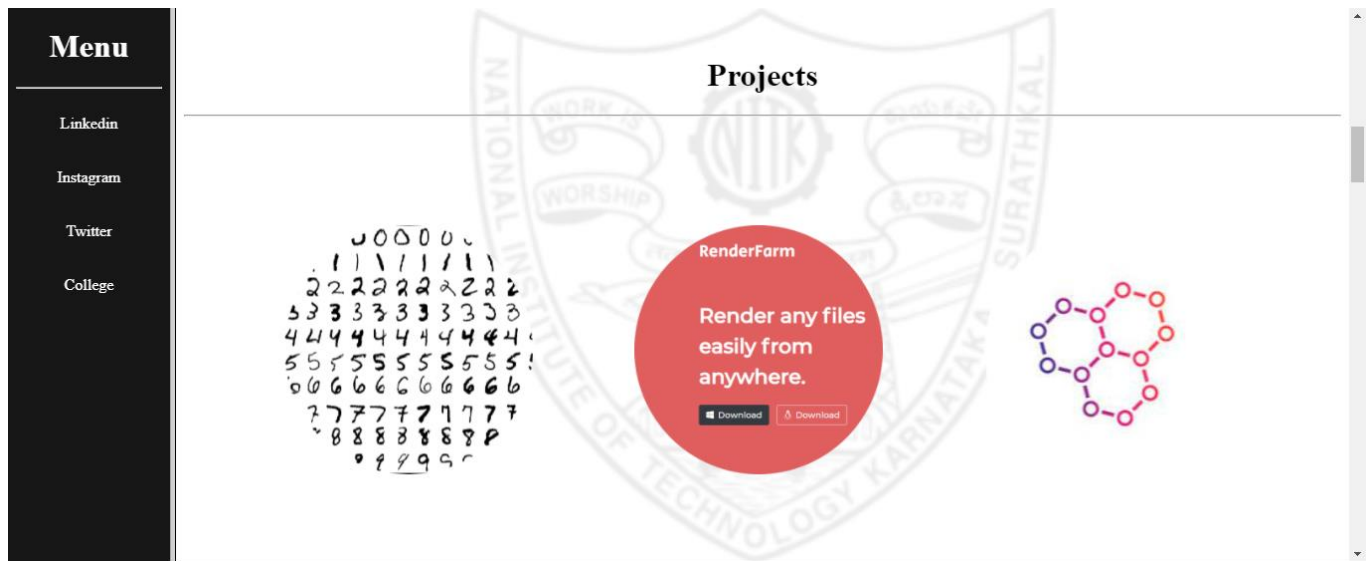
```
<!--Gallery-->

<hr>
<center>
  <h1 class=heading2>Gallery</h1>
  <p>Click the images to find out more about them!</p>
</center>
<hr>
<h1 class=heading2>
  <center>Personal</center>
</h1>

<table cellpadding="100" class="cell">
  <tr>
    <td><a href="about.html">
      </a></td>
    <td><a href="college.html">
      </a></td>
    <td><a href="https://github.com/abhishekchavannn" target="_blank">
      </a></td>
  </tr>
</table>
```

Created a table of one row and created three table data, which resulted in grid of images.

Similarly, used the table and implemented for second row.



The code snippet is as follows:

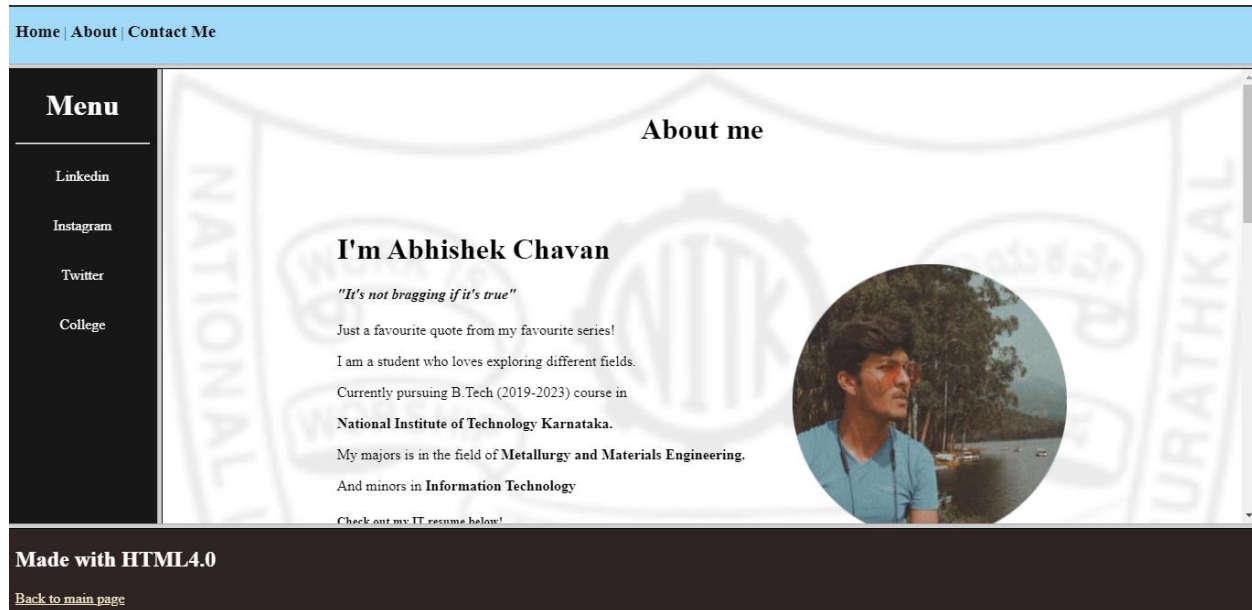
```
<!--Projects-->
<h1 class=heading2>
  <center>Projects</center>
</h1>
<hr>
<table cellpadding="100" class="cell">

  <tr>
    <td><a href="digit.html">
      </a></td>
    <td><a href="webdev.html">
      </a></td>
    <td><a href="meta.html">
      </a></td>
  </tr>
</table>
```

These images will redirect the user to other pages with more detailed information.

In this page, the series of images are the screenshots of the page these photos lead to. My image lead to a about me page, college leads to college page and GitHub redirects it to github.com. And for the projects, they lead to different project pages with detailed information about the projects.

about.html



In the below image, I have included a download image and used anchor tag's download attribute which downloads a resume on the user's PC.



The code snippets for the above part is:

```
<h1 name="about"><center>About me</center></h1>
<center>
<table cellpadding="50" width : 10% >
  <tr>
    <td>
      <h1>I'm Abhishek Chavan</h1>
      <h4><em>"It's not bragging if it's true"</em></h4>
      <p>Just a favourite quote from my favourite series!</p>
      <p>I am a student who loves exploring different fields.</p>
      <p>Currently pursuing B.Tech (2019-2023) course in </p>
      <p><b>National Institute of Technology Karnataka.</b></p>
      <p>My majors is in the field of <b>Metallurgy and Materials Engineering.</b></p>
      <p>And minors in <b>Information Technology</b><p>
        <h5>Check out my IT resume below!</h5>
        <a href="pdfs/ITMinorsResume.pdf" download="Chavan-Resume">
          
        </a>
      </td>
      <td></td>
    </tr>
  </table>
</center>
```

This snippet shows the working of download button which will download a pdf of my resume.

```
<a href="pdfs/ITMinorsResume.pdf" download="Chavan-Resume">
  
</a>
```

Here is how the friend's section looks in about me page:



"Friendship is a bliss"

During this online period, it was hard for each one of us being in home and away from friends.

Distanced by hundreds and thousands of kilometers, still decided to meet back in college. It surely was a wonderful day!

Caption: Just a bunch of friends watching the beautiful sunset!



Code snippet used to create it:

```
<!--friend section-->

<hr>
<h1><center>My friends!</center></h1>
<center>
  <table cellspacing = "50" width="65%">
    <tr>
      <td></td>
      <td>
        <h2><em>"A friend is someone who makes it easy to believe in yourself"</em></h2>
        <p>I have found best and unique friends in my college life, its amazing how everyone
          is talented and gifted in their own way. We help each other in through difficult times
          and also have fun!</p>
        <p><b>Caption: </b>This image was taken back in 2019 when we went to Pilikula Biological Park
          after the mid semester exams!</p>
      </td>
    </tr>
  </table>
</center>
```

```
<center>
  <table cellspacing = "50" width="65%">
    <tr>
      <td>
        <h2><em>"Friendship is a bliss"</em></h2>
        <p>During this online period, it was hard for each one of us
          being in home and away from friends. </p>
        <p>Distanced by hundreds and thousands
          of kilometers, still decided to meet back in college. It surely was a wonderful day!
          </p>
        <p><b>Caption: </b>Just a bunch of friends watching the beautiful sunset!</p>
      </td>
      <td></td>
    </tr>
  </table>
</center>
```


College page snapshots: *college.html*

[Home](#) | [About](#) | [Contact Me](#)

Menu

- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)


College: The National Institute of Technology Karnataka

The Campus

The 295.35-acre campus caters to the needs of a community comprised of Faculty, Staff and Students. The campus is green and beautiful, you can see few peacocks running around. You will blend in the nature for sure!


The following are the amenities provided to the resident in the campus:

- Staff club
- Shopping Complex
- Banks with ATM facility
- Post office
- School



Made with HTML4.0

[Back to main page](#)



The NITK Beach

The private beach is one of the main reason why this college is very looked out and familiar to most of the students! This is NITK beach where you can walk for 15 mins from your hostels and reach the gate!

You can witness the beautiful sunsets and sunrise most of the time and click many photos and brag about it! You can jog, do yoga, cycle parallelly to the beach. Also never miss out the kite festival hosted every year.

Caption: Image of the lighthouse and Surathkal beach.

My second home: Karavali Hostel

Karavali hostel or it was a home away from home to me. Being in this hostel for many months, I didn't feel to leave it and go back home.

The cherishing memories made in this building are unforgettable, the washrooms were cleaned regurlay, the mess food was good and also used to eat from night canteen!

Caption: A glimpse of the Karavali AKA first block boys hostel.





The fests!

Last but not the least, NITK students do conduct amazing shows and fests during the academic year just to release little pressure.

We have two fests annually namely **Engineer: A TechFest** and **Incident: Cultural Fest**. Incident is held in March of every year and is a four-day-long fest with lots of events and shows!. Whereas Engineer has many budding engineers showcasing their skills for fun and welcomes other college students as well.

Caption: This is an image of Incident fest held in 2019 at SAC.

Code snippets of college page which unordered list (bullet points) has shown as features.

```
<center>
<table cellpadding = "50" width="80%">
  <tr>
    <td><h2><b>The Campus</b></h2>
    <p>The 295.35-acre campus caters to the needs of a community comprised of Faculty, Staff and Students.
      The campus is green and beautiful, you can see few peacocks running around. You will blend in the nature
      for sure! </p>
    <p>The following are the amenities provided to the resident in the campus: </p>
    <ul>
      <li>Staff club</li>
      <li>Shopping Complex</li>
      <li>Banks with ATM facility</li>
      <li>Post office</li>
      <li>School</li>
      <li>Hospital</li>
      <li>Guest House</li>
      <li>Cafeterias</li>
      <li>Playground</li>
    </ul>
    <p><b>Caption:</b> This is the aerial view of the campus.</p>
  </td>
  <td></td>
</tr>
```

Image and caption were created by using and tags

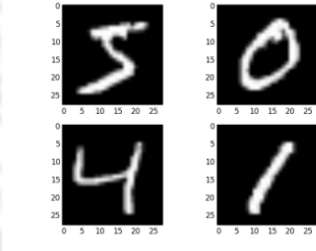
```
<p><b>Caption:</b> A glimpse of the Karavali AKA first block boys hostel.</p>
<td></td>
```


Project page snapshots are as follows: *digit.html*

Home | About | Contact Me

Menu

Digit Recognizer



Digit Recognizer using K-Means

Problem Description

Used KMeans algorithm to perform imagery analysis or image classification. Also obtained the MNSIT database from Sci-kit Learn

Note: Link is given at the bottom of the page

Made with HTML4.0

[Back to main page](#)

Home | About | Contact Me

Menu

More about the project

We call the process k-means clustering because we assume that there are k-clusters, and each cluster is defined by its center point — its mean. To find these clusters, we use Lloyd's Algorithm: we start out with k-random centroids. A centroid is simply a datapoint around which we form a cluster. For each centroid, we find the datapoints that are closer to that centroid than to any other centroid. We call that set of datapoints its cluster. Then we take the mean of the cluster, and let that be the new centroid. We repeat this process (using the new centroids to form clusters, etc.) until the algorithm stops moving the centroids.

We do this in order to minimize the total sum of distances from every centroid to the points in its cluster — that is our metric for how well the clusters split up the data.

I have used k-means clustering on the MNIST dataset of handwritten digits, which consists of 60,000 handwritten digits (0-9) that have been scanned in and scaled to 28x28 pixels.



Made with HTML4.0

[Back to main page](#)

Results

- Number of clusters: 256
- Inertia: 1515560.6410774256
- Homogeneity: 0.8382648114054355
- Accuracy : 0.8898666666666667



GitHub Link of the project (Click Me!)

Click on the heading to see the project uploaded on GitHub for more information.

webdev.html (Contains the HTML of the below page)

[Home](#) | [About](#) | [Contact Me](#)

Menu

- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)

RenderFarm

Responsive WebPage: RenderFarm

About the Project

This page is about a hypothetical software which allows the 3D graphic designers, engineers etc to render their project on cloud servers. To promote this product, this particular page was made. Responsive as in when this site is viewed from different aspect ratios or devices, the website would still look intact without many problems! This site is inspired by TinDog, using the same concepts I could build my own site.

Note: Project Link is given at the bottom of the page

[WebPage Link] Click here.

Made with HTML4.0

[Back to main page](#)

[Home](#) | [About](#) | [Contact Me](#)

Menu

- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)

BootStrap 5

Used bootstrap-5 framework for making the page responsive and other things:

- Navigation Bar
- Cards for pricing plans
- Download Buttons
- Carousel for testimonials, etc.

CSS & HTML

Used HTML to structure the webpage, for various bootstrap features. Also CSS was used for using advanced manipulation using Z-Indexes and media queries.

Screenshots

1. Starting div, the image resizes as the size of window changes.
2. Icons and brief info using the minimal structure
3. Carousel using bootstrap-5 for testimonials
4. Pricing tables made using the card features
5. Footer with social media links and download buttons

Made with HTML4.0

[Back to main page](#)

Get the fastest Rendering Services Today!



© Copyright 2020 RenderFarm



GitHub Link of the project (Click Me!)

Click on the heading to see the project uploaded on GitHub for more information.

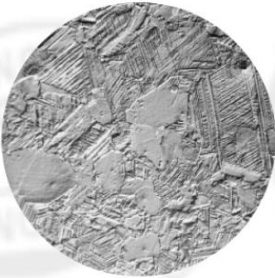
Meta.html – Another project which when clicked on the image in gallery displays the following:

[Home](#) | [About](#) | [Contact Me](#)

Menu

- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)

Composition prediction



Predicting composition of Cr-Mo alloy

Problem Description

Using the regression models in a real thermodynamic system. Applied two supervised algorithms, Linear regression and K-Nearest Neighbors to predict the composition values at various eta values.

Note: Link is given at the bottom of the page

Made with HTML4.0

[Back to main page](#)
<https://www.codeskulptor.com/in/abhishekchavannn123/>

[Home](#) | [About](#) | [Contact Me](#)

Menu

- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)

More about the project

What does eta values mean?

These are dimensionless number, that represent normalized energy parameters which corresponds to:

- eta1 - first neighbor cluster
- eta2 - second neighbor cluster
- eta3 - third neighbor cluster
- eta4 - fourth neighbor cluster

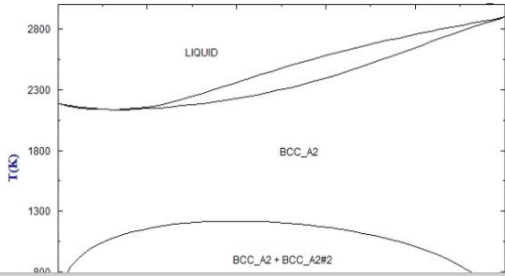
What are the other contents in the dataset?

The dataset contains: u0, u1, u2, u3, u4, eta1, eta2, eta3, eta4. Here

- u0 - Composition
- u1 - Correlation function for I-neighbor pair
- u2 - Correlation function for II-neighbor pair
- u3 - Correlation function for triangle
- u4 - Correlation function for tetrahedron cluster

Cr - Mo

Data from FSstel - FactSage steel alloy databases



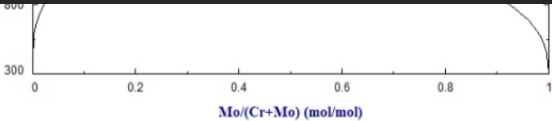
Made with HTML4.0


[Back to main page](#)

Results

- Accuracy of linear model on training dataset : 49.709004178502795 %
- Accuracy of linear model on testing dataset : 51.05961513782863 %
- Accuracy of K-Nearest Neighbor model on training dataset : 59.11328125000001 %
- Accuracy of K-Nearest Neighbor model on testing dataset : 51.05961513782863 %

Using the efficient model, preferably the KNN model can be used to predict the composition values at different eta values.





GitHub Link of the project (Click Me!)

Click on the heading to see the project uploaded on GitHub for more information.

Code snippet of digit.html

```
<!--digitrec-->
<h1 style="color: #2C394B;">
  <center>Digit Recognizer</center>
</h1>
<center>
  <table cellpadding="50" width="80%">
    <tr>
      <td>
        
      </td>
      <td>
        <h2 style="color: crimson;">Digit Recognizer using K-Means</h2>
        <h3>Problem Description</h3>
        <hr>
        <p>Used KMeans algorithm to perform imagery analysis or image classification.
          Also obtained the MNSIT database from Sci-kit Learn</p>
        <p><b style="color: crimson;">Note:</b> Link is given at the bottom of the page</p>
      </td>
    </tr>
  </table>
</center>
<hr>
<center>
```

GitHub link, at the bottom of the page

```
<table cellpadding="20" width="50%">
  <tr>
    <td>
      
    </td>
    <td><a target="_blank" style="text-decoration:none; color: #0F52BA"
      href="https://github.com/abhishekchavannn/Digit-recognizer-KMeans">
        <h2>GitHub Link of the project (Click Me!)</h2>
      </a>
      <p>Click on the heading to see the project uploaded on GitHub for more information.</p>
    </td>
  </tr>
</table>
```

Next snapshots are bullet points, and the snapshots about the details of the project
Used tags: <h1>...<h6> <p> <center> <table> and some inline styling to make the page look better.

```

<h3>
  <ul>
    <li>Number of clusters: 256</li>
    <li>Inertia: 1515560.6410774256</li>
    <li>Homogeneity: 0.8382648114054355</li>
    <li> Accuracy : 0.8898666666666667</li>
  </ul>
</h3>

```

```

<table cellpadding="30" width="50%">
  <tr>
    <td>
      <center>
        <h2 style="color: crimson;">More about the project</h2>
      </center>
      <p>We call the process k-means clustering because we assume that there are
      k-clusters, and each cluster is defined by its center point – its mean.
      To find these clusters, we use Lloyd's Algorithm: we start out with k-random centroids.
      A centroid is simply a datapoint around which we form a cluster. For each centroid,
      we find the datapoints that are closer to that centroid than to any other centroid.
      We call that set of datapoints its cluster. Then we take the mean of the cluster,
      and let that be the new centroid. We repeat this process (using the new centroids
      to form clusters, etc.)
      until the algorithm stops moving the centroids.</p>

      <p>
        We do this in order to minimize the total sum of distances from every centroid to the points in its cluster
        that is our metric for how well the clusters split up the data.
      </p>

      <p>
        I have used k-means clustering on the MNIST dataset of handwritten digits, which consists of 60,000 handwritten
        digits that have been scanned in and scaled to 28x28 pixels.
      </p>
    </td>
  </tr>
</table>

```

Similar way, the other pages are created with different information and images.

In all of the above, basic HTML tags specified in the task were used to create the structure properly. Here is how **NITK logo** was added as **background image**:

```

<body style="background-image: url('./images/bg-image.png');
background-size: 50%;background-repeat: no-repeat;
background-attachment: fixed;
background-position: center;">

```

2. Create a nested list of all your projects/hobbies/interests/courses. Include a contents section at the beginning of the page, and more information about each of the projects/hobbies/ interests/courses later in the page.

The contents are hyperlinked, and take the user to that particular section of the main page.

Click on the contents to check out more.

- Hobbies
 - Competitive Gaming
 - 3D modeling
 - Animations
- Courses
 - Metallurgical and Materials Engineering
 - Information Technology
- Table
- Interests
 - Web and App development
 - Machine learning
- XHTML Form

Code snippets to create the nested contents:

```
<div>
  <h1>
    <center> Contents </center>
  </h1>
  <hr>
  <br>
</div>
<div>
  <h4>Click on the contents to check out more.</h4>
  <ul>
    <li><a href="#hobbies" style="text-decoration: none;color: #343A40;font-weight:900">Hobbies</a></li>
    <ul>
      <li><a href="#gaming" style="text-decoration: none;color: #053742">Competitive Gaming</a></li>
      <li><a href="#3d" style="text-decoration: none;color: #053742">3D modeling</a></li>
      <li><a href="#anim" style="text-decoration: none;color: #053742">Animations</a></li>
    </ul>

    <li><a href="#courses" style="text-decoration: none;color: #343A40;font-weight:900">Courses</a></li>
    <ul>
      <li><a href="#mme" style="text-decoration: none;color: #053742">Metallurgical and Materials Engineering</a></li>
      <li><a href="#it" style="text-decoration: none;color: #053742">Information Technology</a></li>
    </ul>

    <li><a href="#tablee" style="text-decoration: none;color: #343A40;font-weight:900">Table</a></li>
    <li><a href="#interests" style="text-decoration: none;color: #343A40;font-weight:900">Interests</a></li>
    <ul>
      <li><a href="#web" style="text-decoration: none;color: #053742">Web and App development</a></li>
      <li><a href="#ml" style="text-decoration: none;color: #053742 ">Machine learning</a></li>
    </ul>

    <li><a href="#forms" style="text-decoration: none;color: #343A40;font-weight:900">XHTML Form</a></li>
  </ul>
</div>
```




Competitive Gaming

I have been playing Competitive FPS gaming from 3-4 years, one of the best games I have come across was **Counter Strike: Global offensive**. I have around 2000 hours of experience

Caption: Just one of my favourite professional player!

3D modeling and animation

I have been working on animations and 3D modeling on and off around 4 years, and pretty much good with the basics of this industry.

Caption: I have been working on an animation, and this is one scene which I love.



I have added a video in the hobbies section with controls of small width and height. The code snippet to support this is as follows:

```
<td><video id="anim" width="300" height="150" controls>
  <source src="video/11.mp4" type="video/mp4">
</video></td>

<table cellpadding="50" width="65%">
  <tr>
    <td>
      <h2 id="3d"><em>3D modeling and animation</em></h2>

      <p>I have been working on animations and 3D modeling on and off around 4 years, and
        pretty much good with the basics of this industry.</p>
      <p><b>Caption:</b> I have been working on an animation, and this is one scene which I love.</p>
    </td>
    <td><video id="anim" width="300" height="150" controls>
      <source src="video/11.mp4" type="video/mp4">
    </video></td>
  </tr>
</table>
```


Screenshot of the course section on the main page and the code snippets:

[Home](#) | [About](#) | [Contact Me](#)

Menu

- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)

Courses



Metallurgy and Materials Science

The Department of Metallurgical and Materials Engineering, one of the oldest Departments at National Institute of Technology, was established in the year 1965 with an objective to impart education and training in Metallurgical & Materials Engineering.

Caption: Metallurgy department of NITK Surathkal.

(Source: [Meta Dept.](#))

Made with HTML4.0
[Back to main page](#)

[Home](#) | [About](#) | [Contact Me](#)

Menu


- [Linkedin](#)
- [Instagram](#)
- [Twitter](#)
- [College](#)

Information Technology (Minors)

Established in the year 2000, the Department of Information Technology is the youngest among the 14 departments at NITK Surathkal. Since then, it has grown to be a center for excellence, innovation and research with dedicated faculty & staff, highly motivated students, state-of-the-art facilities and an innovative teaching-learning environment.

Caption: IT department of NITK Surathkal.

(Source: [IT Dept.](#))



Made with HTML4.0
[Back to main page](#)

```
<center>
  <table cellpadding="50" width="65%" id="mme">
    <tr>
      <td></td>
      <td>
        <h2><em>Metallurgy and Materials Science</em></h2>
        <p>The Department of Metallurgical and Materials Engineering, one of the oldest
          Departments at National Institute of Technology, was established in the year 1965
          with an objective to impart education and training in Metallurgical &
          Materials Engineering.</p>
        <p><b>Caption: </b>Metallurgy department of NITK Surathkal. </p>
        <p>(Source: <a href="https://mme.nitk.ac.in/" target="_blank">Meta Dept.</a>)</p>
      </td>
    </tr>
  </table>
```

Menu

Linkedin

Instagram

Twitter

College

Interests



Web and App development

A web application is application software that runs on a web server, unlike computer-based software programs that are run locally on the operating system of the device.

Caption: I am learning front end and back end as of now!

Made with HTML4.0

[Back to main page](#)

Menu

Linkedin

Instagram

Twitter

College

Machine Learning

Machine learning is the study of computer algorithms that can improve automatically through experience and by the use of data. It is seen as a part of artificial intelligence

Caption: Created numerous basic projects on machine learning using python!



Made with HTML4.0

[Back to main page](#)

Code snippets of the machine learning section which is also displayed on the main page.

```
<table cellspacing="50" width="65%" id="ml">
  <tr>
    <td>
      <h2><em>Machine Learning</em></h2>
      <p>Machine learning is the study of computer algorithms that can improve automatically
        | through experience and by the use of data. It is seen as a part of artificial intelligence</p>
      <p><b>Caption: </b>Created numerous basic projects on machine learning using python!</p>
    </td>
    <td></td>
  </tr>
</table>
```

3. Create a table for your page and populate with relevant content

Table

Sl.No	Achievements and education	More info			Detailed description
		Period	Place of event	Rating/Marks	
1.	Braille Shoes 2.0	April 2018	IIT Kanpur	★ ★ ★	A project, which helped visually impaired civilians.
2.	Mini Project (CS)	June 2019 - June 2020	NITK Surathkal	★ ★ ★ ★	SQL: Bank Management system
				★ ★ ★ ★ ★	C prog: HR Management system
	National Institute of Technology, Surathkal	2019-2023	Karnataka	8.68 CGPA	B.Tech, majors in Metallurgical and minors in IT
	Kendriya Vidyalaya Malleswaram	2016-2019		93%	CBSE 12 and 10
3.	Passion Project	Ongoing	Personal	Work In Person	Just an animation of McLaren made in an open source software of 3D modeling.

Code snippet which was used to create the above table

```
<center>
  <h1 id="tablee">Table</h1>
</center>

<center>
  <div>
    <table border="1">
      <tr>
        <th rowspan="2">Sl.No
        <th rowspan="2">Achievements and education
        <th colspan="3">More info
        <th rowspan="2">Detailed description
      <tr>
        <th>Period
        <th>Place of event
        <th>Rating/Marks
      <tr>
        <th>1.
        <td>Braille Shoes 2.0
        <td>April 2018
        <td>IIT Kanpur
        <td>★ ★ ★
        <p>A project, which helped visually impaired civilians.</p>
      <tr>
        <td rowspan="4">2.
        <td>Mini Project (CS)
        <td>June 2019 - June 2020
        <td>NITK Surathkal
        <td>★ ★ ★ ★
        <td>SQL: Bank Management system
      <tr>
        <td>
        <td>
        <td>
        <td>★ ★ ★ ★ ★
        <td>C prog: HR Management system
      <tr>
        <td>National Institute of Technology, Surathkal
        <td>2019-2023
        <td rowspan="2">Karnataka
        <td>8.68 CGPA
        <td>B.Tech, majors in Metallurgical and minors in IT
      <tr>
        <td>Kendriya Vidyalaya Malleswaram
        <td>2016-2019
        <td>
        <td>93%
        <td>CBSE 12 and 10
      <tr>
        <td>3.
        <td>Passion Project
        <td>Ongoing
        <td>Personal
        <td>Work In Person
        <td>Just an animation of McLaren made in an open source software of 3D modeling.
      </table>
    </div>
  </center>
```

```

<tr>
  <th rowspan="4">2.
    <td rowspan="2">Mini Project (CS)
    <td rowspan="2">June 2019 - June 2020
    <td rowspan="2">NITK Surathkal
    <td> ★ ★ ★ ★
  <td> SQL: Bank Management system
<tr>
  <td> ★ ★ ★ ★ ★
  <td> C prog: HR Management system
<tr>
  <td>National Institute of Technology, Surathkal
  <td>2019-2023
  <td rowspan="2">Karnataka
  <td> 8.68 CGPA
  <td> B.Tech, majors in Metallurgical and minors in IT
<tr>
  <td>Kendriya Vidyalaya Malleswaram
  <td> 2016-2019
  <td> 93%
  <td> CBSE 12 and 10
<tr>
  <th>3.
    <td>Passion Project
    <td>Ongoing
    <td>Personal
    <td>Work In Person
    <td>
    <p>Just an animation of McLaren made in an open <br>source software of 3D modeling.</p>
</table>
</center>

```

The tags which were used to make tables are:

<table> Table tag

<tr> Table Row

<th> Table head

<td> Table data

4. Create an XHTML form customized to your webpage.

Contact Me

Do fill the following details!
(XHTML Form)

First Name * Enter your First Name Last Name * Enter your Last Name

E-mail * Enter your e-mail

Country * Select your country

Address Line 1 * House No./Flat No. Address Line 2 Enter street name

Address Line 3 * Enter complete address

Gender * ☒ Male ☐ Female ☐ Others

Leave me a message

☒ Do you want to collaborate on a project?

☐ Want to subscribe to my newsletter?

Code snippet used to create this XHTML

Included, XHTML 1.0 doctype and created a style, which creates a mandatory red asterisk where the information is required.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
  <head>
    <title>Contact Me</title>
    <link rel="icon" href="favicon.ico">
    <style>
      .required-field::before {
        content: "* ";
        color: red;
      }
    </style>
  </head>
```


In the below snippet, there's no php/database and hence the action is empty. The country dropdown has lots of options which is displayed ahead.

```
<center>
  <h1>Contact Me </h1>

  <hr>
  <h3>Do fill the following details!</h3>
  <p>(XHTML Form)</p>
</center>
<br>
<center>
  <form method="POST" action="">
    <p><b>First Name </b> <span class="required-field"></span>
      <input type="text" name="fname" placeholder="Enter your First Name" required />
      &nbsp;
      <b> Last Name </b> <span class="required-field"></span>
      <input type="text" name="lname" placeholder="Enter your Last Name" required />
    </p>

    <p>E-mail<span class="required-field"></span>
      <input type="text" name="name" required placeholder="Enter your e-mail" />
    </p>
    <p>Country <span class="required-field"></span>
      <select id="country" name="country">=
    </p>
```

The required field for Address is used below and also a placeholder is in use.

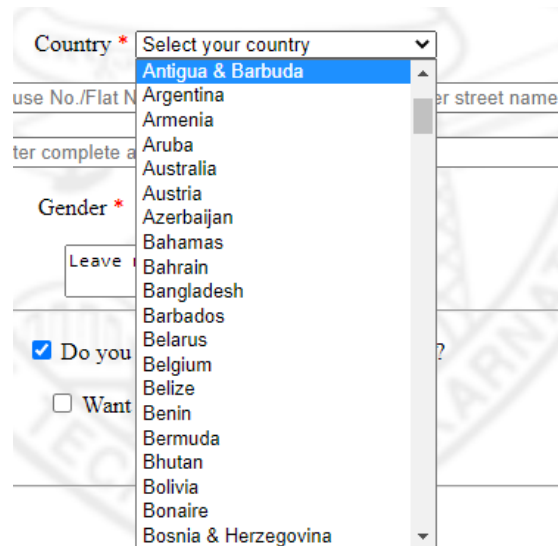
```
<p>Address Line 1 <span class="required-field"></span>
  <input type="text" name="add1" placeholder="House No./Flat No." required />
Address Line 2
<input type="text" name="add2" placeholder="Enter street name" required /></p>
<p>Address Line 3 <span class="required-field"></span>
  <input type="text" size="60" name="add2" placeholder="Enter complete address" required /></p>
<p>Gender <span class="required-field"></span>
```

Added radio and checkbox type for their respective use.

```
  <label><input type="radio" value="none" name="gender" required /> <span>Male</span></label>
  <label><input type="radio" value="none" name="gender" required /> <span>Female</span></label>
  <label><input type="radio" value="none" name="gender" required /> <span>Others</span></label>
</p>
<textarea name="comments" rows="2" cols="30">Leave me a message</textarea>
<hr>

<p> <input type="checkbox" /> Do you want to collaborate on a project?</p>
<p> <input type="checkbox" /> Want to subscribe to my newsletter?</p>
<button type="submit" href="/">Submit</button>
</form>
```

To create this following in XHTML, a code snippet is given below. Which has several countries as an option for the users.

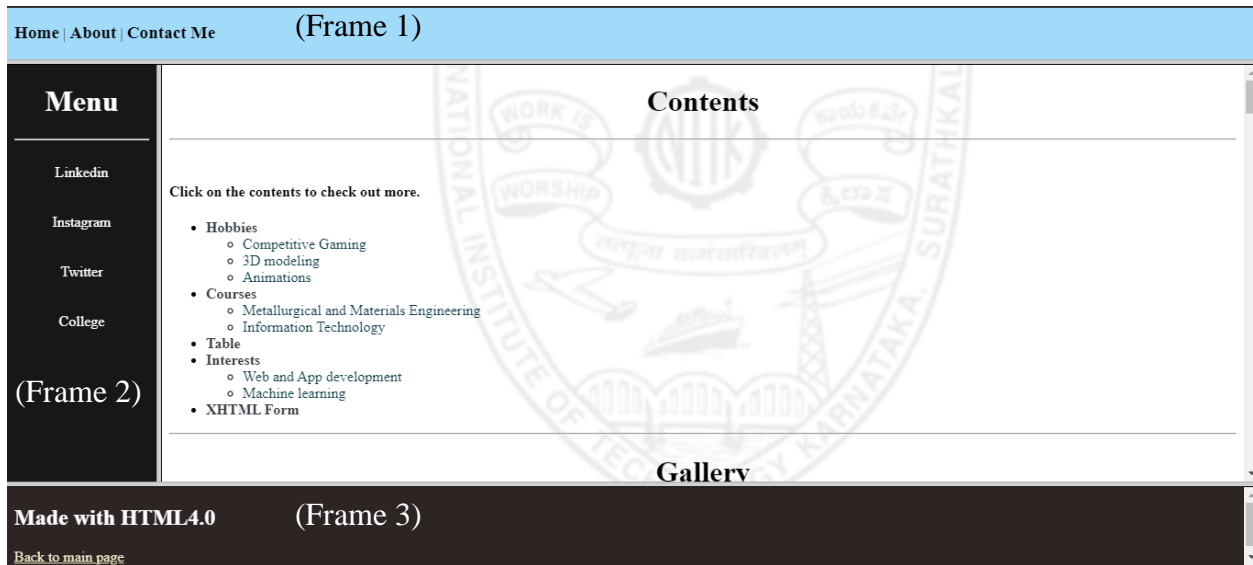


The screenshot shows a web form with a dropdown menu labeled 'Country *'. The dropdown is open, displaying a list of countries in alphabetical order. The first country visible is 'Antigua & Barbuda', which is highlighted. Other visible countries include Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bonaire, and Bosnia & Herzegovina. To the left of the dropdown, there are other form elements: a text input field with 'use No./Flat N', a text input field with 'ter complete a', a 'Gender *' label, a 'Leave' button, a checked checkbox labeled 'Do you', and an unchecked checkbox labeled 'Want'.

The list just goes on and contains 245 countries in alphabetical order.

```
<p>Country <span class="required-field"></span>
  <select id="country" name="country">
    <option value="click">Select your country</option>
    <option value="Afghanistan">Afghanistan</option>
    <option value="Albania">Albania</option>
    <option value="Algeria">Algeria</option>
    <option value="American Samoa">American Samoa</option>
    <option value="Andorra">Andorra</option>
    <option value="Angola">Angola</option>
    <option value="Anguilla">Anguilla</option>
    <option value="Antigua & Barbuda">Antigua & Barbuda</option>
    <option value="Argentina">Argentina</option>
    <option value="Armenia">Armenia</option>
    <option value="Aruba">Aruba</option>
    <option value="Australia">Australia</option>
    <option value="Austria">Austria</option>
    <option value="Azerbaijan">Azerbaijan</option>
    <option value="Bahamas">Bahamas</option>
    <option value="Bahrain">Bahrain</option>
    <option value="Bangladesh">Bangladesh</option>
    <option value="Barbados">Barbados</option>
    <option value="Belarus">Belarus</option>
    <option value="Belgium">Belgium</option>
```

5. Use nested frames and create other related pages for yourself that are displayed in each of the other frames. The hypertext links when clicked, should open in the frame named “Menu”.



Frame 1 represents Nav bar

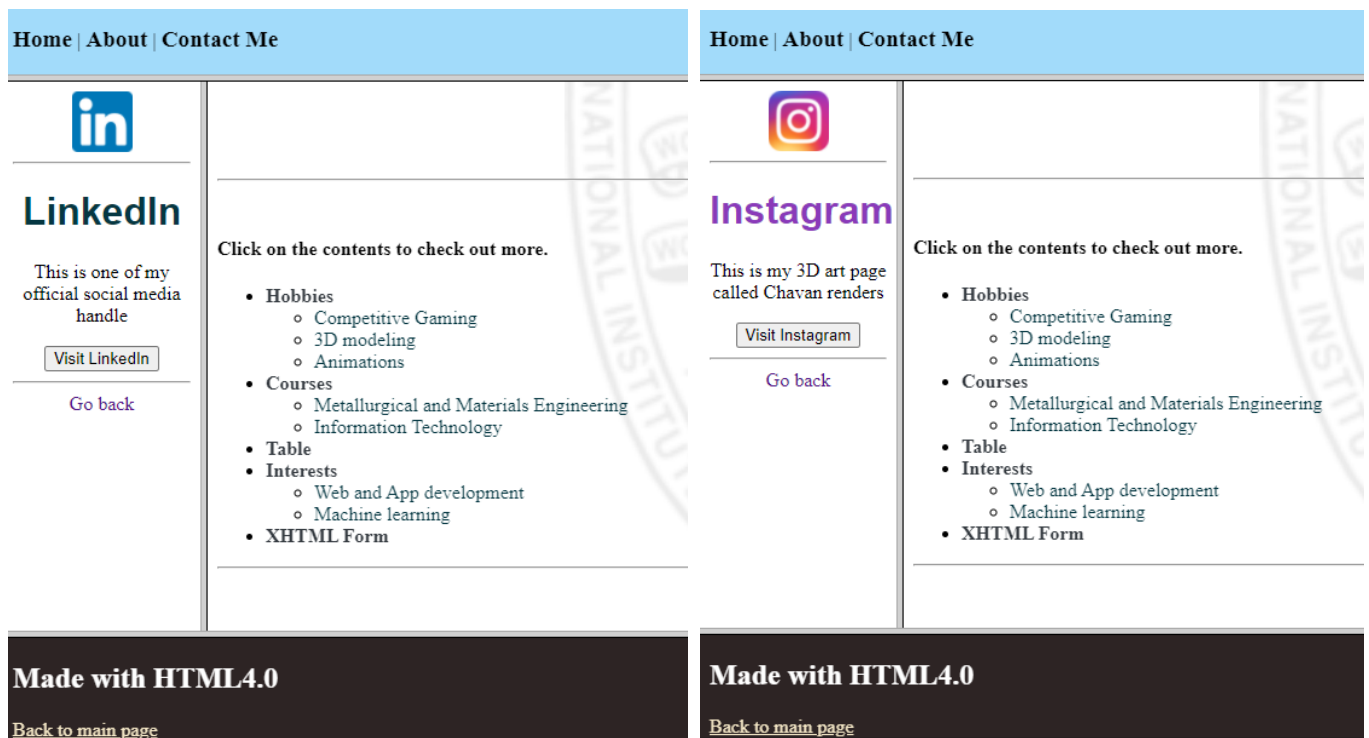
Frame 2 represents Side Menu bar

Frame 3 represents Footer which has a hyperlink which gets you to main page.

This code snippet is of *frames.html*

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN"
"http://www.w3.org/TR/html4/frameset.dtd">
<html>
  <head>
    <title>Abhishek Chavan | Frames</title>
    <link rel="icon" href="favicon.ico">
  </head>
  <frameset rows="10%, 80%, 15%">
    <frame src="navbar.html" name = "nav" style="background-color: #A2DBFA"/>
    <frameset cols="12%, 88%">
      <frame src="contents.html" name = "contents" style="background-color: #171717"/>
      <frame src="index.html" name = "index"/>
    </frameset>
    <frame src="footer.html" name = "footer" style="background-color: #2D2424"/>
  </frameset>
</html>
```

When clicked on LinkedIn and Instagram side menu, this is the output.



Every menu has a logo which is clickable and the button redirects the user to the respective pages. The Go back link when click gets the user back to the side menu.

Code snippet of the side bar (*contents.html*):

```
1 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "http://www.w3.org/TR/html4/frameset.dtd">
2 <html>
3 <head>
4   <title>Contents</title>
5 </head>
6
7 <body>
8   <h1 style="color: white">
9     <center> Menu </center>
10  </h1>
11  <hr>
12  <center>
13    <br>
14    <a href="linkedin.html" style="text-decoration:none; color: white">LinkedIn</a>
15    <br><br><br>
16    <a href="insta.html" style="text-decoration:none; color: white">Instagram</a>
17    <br><br><br>
18    <a href="https://www.Twitter.com/" target="_blank" style="text-decoration:none; color: white">Twitter</a>
19    <br><br><br>
20    <a href="college.html" target="_blank" style="text-decoration:none; color: white">College</a>
21  </center>
22 </body>
23
24 </html>
```

Code snippet of Nav bar (*navbar.html*):

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN"
"http://www.w3.org/TR/html4/frameset.dtd">
<html>
  <head>
    <title>nav</title>
  </head>
  <nav>
    <p><a href="index.html" target="index"
      style="text-decoration: none;font-weight: 900;font-size: larger;color: black">Home</a> |
      <a href="about.html" target="about"
      style="text-decoration: none;font-weight: 900;font-size: larger;color: black">About</a> |
      <a href="contacts.html" target="contacts.html"
      style="text-decoration: none;font-weight: 900;font-size: larger;color: black">Contact Me</a></p>
  </nav>
```

Code snippet of the footer (*footer.html*):

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN"
"http://www.w3.org/TR/html4/frameset.dtd">
<html>
  <head>
    <title>
      footer</head>
    </title>
  <body>
    <h2 style="color: white">Made with HTML4.0</h2>
    <a href="frames.html" target="frames.html" style="color: #F5E8C7">Back to main page</a>
  </body>
</html>
```

Code snippet of LinkedIn (*linkedin.html*): Similar way is done for *Insta.html*

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "http://www.w3.org/TR/html4/frameset.dtd">
<html>

<head>
  <title>LinkedIn</title>
</head>

<body style="background-color: white">
  <center>
    <a href=" https://www.linkedin.com/in/abhishekchavannn123/">
      
    </a>
    <hr>
    <h1 style="color: #053742;font-family: sans-serif">LinkedIn</h1>
    <p>This is one of my official social media handle</p>
    <a href=" https://www.linkedin.com/in/abhishekchavannn123/" target="_blank">
      <button type="button" name="button">Visit LinkedIn</button></a>
    <hr>
    <a href="contents.html" target="contents" style="text-decoration: none">Go back</a>
  </center>
</body>
</html>
```

ERRORS AND VALIDATION

Errors generated while creating the webpages are as follows:

✖ Line 30, Column 53: **there is no attribute "placeholder"**

```
...<input type="text" name="fname" placeholder="Enter your First Name" required />
```

You have used the attribute named above in your document, but the document type you are using does not support that attribute for this element. This error is "Strict" document type with a document that uses frames (e.g. you must use the "Transitional" document type to get the "target" attribute), or by using v "marginheight" (this is usually fixed by using CSS to achieve the desired effect instead).

This error may also result if the element itself is not supported in the document type you are using, as an undefined element will have no supported attributes; in error message for further information.

How to fix: check the spelling and case of the element and attribute, (Remember XHTML is all lower-case) and/or check that they are both allowed in the ch instead of this attribute. If you received this error when using the <embed> element to incorporate flash media in a Web page, see the [FAQ item on valid flash](#).

✖ Line 30, Column 87: **"required" is not a member of a group specified for any attribute**

```
...<input type="text" name="fname" placeholder="Enter your First Name" required />
```

<hr> tags were giving errors, this can be rectified by <hr/>

✖ Line 309, Column 11: **end tag for "hr" omitted, but OMITTAG NO was specified**

```
<hr>
```

You may have neglected to close an element, or perhaps you meant to "self-close" an element, that is, ending it with ">" instead of ">".

✖ Line 311, Column 23: **an attribute value specification must be an attribute value literal unless SHORTTAG YES is specified**

```
<p> <input type="checkbox" /> Do you want to collaborate on a project?</p>
```

✖ Line 312, Column 23: **an attribute value specification must be an attribute value literal unless SHORTTAG YES is specified**

```
<p> <input type="checkbox" /> Want to subscribe to my newsletter?</p>
```

As there is no destination href specified, this error occurred.

✖ Line 313, Column 34: **there is no attribute "href"**

```
<button type="submit" href="/">Submit</button>
```

You have used the attribute named above in your document, but the document type you are using does not support that attribute for "Strict" document type with a document that uses frames (e.g. you must use the "Transitional" document type to get the "target" "marginheight" (this is usually fixed by using CSS to achieve the desired effect instead).

This error may also result if the element itself is not supported in the document type you are using, as an undefined element will have an error message for further information.

How to fix: check the spelling and case of the element and attribute, (Remember XHTML is all lower-case) and/or check that they are both allowed in the document type you are using instead of this attribute. If you received this error when using the <embed> element to incorporate flash media in a Web page, see the [FAQ item on valid flash](#).