



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

TOPIC: Digital Assignment I

NAME	:	Sourav Chakraborty
REG.NO	:	20BCB0054
SUBJECT CODE	:	CSE 3002
SUBJECT	:	Internet and Web Programming
SLOT	:	B2
SEMESTER	:	Fall Semester 22-23
GUIDED BY	:	Prof. Jayakumar S

GitHub repository link:

<https://github.com/sourav200199/sourav200199.github.io>

Visit my website:

<https://sourav200199.github.io/>

Due Date: 1 November 2022

Step – by – step process for the creation of the Portfolio website

- I. Gather all the information that you want to showcase on your portfolio website, such as – a brief description about yourself, your skills, the projects you have been involved in, etc. Create a folder for this project and add subdirectories such as – Images, Style, Scripts, etc.
- II. Make the skeleton HTML page including all these above-mentioned descriptions with proper headings, divisions, paragraphs and listings.
- III. Add properly named selector elements (class, id, etc.) to the HTML tags so that they can be styled easily using CSS or any other frameworks. Also, functionalities can be added to these selector elements only. Thus, be very careful in this step as the remaining portion of the work depend on this!
- IV. Do the required styling. Choosing a proper color gradient (you may refer to various websites available for help in this case) is very important as the color-contrast should look soothing as well as eye-catching to the viewers of your website.
- V. While styling your website, keep it in mind to make the webpage as responsive as possible so that viewers may not find it difficult to read, no matter what the resolution of the screen is.
- VI. Add the required functionalities to your website, for example – adding a JS library for an animated background; using jQuery to create a hamburger menu, window scroll; etc.
- VII. Once the website is complete, go to your GitHub and create a ‘New’ public repository named as – “<username>.github.io”. In my case, as you can see, I have named it as - “sourav200199.github.io”.
- VIII. Go to the repository “Settings”. In the “Pages” section, select the “Branch” as “main”.
- IX. You will see a message as – “Your website is ready to be published at <website>”. Click on the link and you will find that it is being hosted on the internet.

Things I learnt while making the website

- I. Creating an eye-catching yet concise portfolio is not an easy task. In my case, I have tried to get an idea on what to include and what not, and how, after referring to some others’ work.
- II. If you have any doubt regarding any of the HTML tags or any CSS properties, refer to the **MDN Docs**. It is the best place where you get to know all of the functionalities of these things.
- III. I came across a few of the rare yet useful HTML and CSS properties, for example – the **meter** and **progress** tags, some **Webkit features**, etc., which really helped me in completing the website.
- IV. Choosing the right color palette itself is a huge challenge. For this purpose, I have learned to make use online available tools like **cssgradient.io**. Not only for the color picking, we can even create and make our own backgrounds.

- V. I came across the functionalities of **jQuery** and realized how easy styling can be, compared to the usual CSS.
- VI. I learnt about **JS libraries** like **vanta.js** and other such available libraries for adding animations and other effects with ease, which you can use in your website too, and how to use them in the right way.
- VII. “Don’t be afraid to try out new things” is what I learnt during this entire process of making the website. I faced a lot of difficulties in styling and adding functionalities to the site, yet managed to sort them out by referring to the net. Debugging is an important skill to master!
- VIII. Making the page responsive seemed to be the biggest challenge for me. For this purpose, make use of the “**Inspect Element**” of the browser to check how your page looks in different dimensions, and make the changes accordingly.
- IX. There is nothing wrong in referring to others’ work. Use it the right manner and apply it in your own way. I also had referred to some of my friends’ websites as well as the ones available at various sites to see how they arranged their things, styled it, etc. and utilized the ones which I felt useful in my own manner.
- X. If you have any difficulties in any of the steps, feel free to share it to the technology communities. Communities like **StackOverflow** and other such platforms are the best to share and gain knowledge.

Why we need a Portfolio website?

A portfolio website is a professional technique to share our knowledge with people and by creating a website, we can showcase our skills and experience. Websites have the ability to share content with anybody in the globe and are more creative and imaginative than conventional portfolios.

For an interviewee, an employer can probably click on the website link to examine what he/she has created, if they see it in your signature or on your CV. A great first impression will come from the fact that you took the effort to create a website with examples of your work, referrals, prior presentations, and more. Whether you're working or not, you may continually produce fresh content to add to your website to demonstrate your ongoing learning process.

Code

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="Style/style.css">
  <link href="https://fonts.googleapis.com/css2?family=Open+Sans&display=swap"
rel="stylesheet">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
```

```

<title>I_am_Sourav</title>
<link rel="icon" href="Images/sc.png" type="image/png">
</head>
<body>
  <div class="menu">
    <h2 id="nm"><a href="#content" class="name"> Sourav <span
id="surname">Chakraborty</span> </a></h2>
    <ul class="list-items">
      <li><a href="#about" class="items">About Me</a></li>
      <li><a href="#skills" class="items">Skills</a></li>
      <li><a href="#projects" class="items">Projects</a></li>
    </ul>
    <div class="buttons">
      <button class="hamburger"></button>
    </div>
    <div id="bar">
      <div id="progress"></div>
    </div>
  </div>
  <section id="content">
    <div id="intro">
      <h1 class="intro-heading">Hi, I'm Sourav</h1>
      <p class="intro-text">
        <span id="span1">Student | </span><br><span id="span2"> VITian' 24 |</span>
<br><span id="span3"> CSE |</span>
      </p>
    </div>
    <div class="image">
      
    </div>
  </section>
  <section id="about">
    <div class="container">
      <div class="part1">
        <h1 class="heading">About Me</h1>
      </div>
      <div class="content-text">
        I am a third year enginnering student pursuing B. Tech in CSE with
specialization
        in bioinformatics from <abbr title="Vellore Institute of Technology"> VIT
</abbr>,
        Vellore. <br> I do love problem solving and aspire to become a web developer.
<br>
        <br>
        I have done my schooling from Saint Xavier's school, Raiganj. <br><br>
        Playing football, watching animes and reading books are some of my hobbies.
<br>
      </div>
    </div>
  </section>

```

```
</div>
</section>
<section id="skills">
  <div class="container1">
    <div class="part1">
      <h1 class="heading">Skills</h1>
    </div>
    <div class="content-text1">
      <div class="skills">
        <h3>1. Programming Languages:</h3>
        <ul class="skills-list">
          <li>C</li>
          <li>C++</li>
          <li>Python</li>
          <li>Java</li>
        </ul>
      </div>
      <div class="skills">
        <h3>2. Web Development:</h3>
        <ul class="skills-list">
          <li>HTML</li>
          <li>CSS</li>
          <li>JavaScript</li>
          <li>Bootstrap</li>
          <li>jQuery</li>
          <li>PHP</li>
          <li>MySQL</li>
        </ul>
      </div>
      <div class="skills">
        <h3>3. ML:</h3>
        <ul class="skills-list">
          <li>NumPy</li>
          <li>Pandas</li>
          <li>Matplotlib</li>
          <li>Scikit learn</li>
        </ul>
      </div>
    </div>
  </div>
</section>
<section id="projects">
  <div class="container2">
    <div class="part1">
      <h1 class="heading">Academic Projects</h1>
    </div>
    <div class="content-text2">
      <div id="card1">
        <div id="label1">
          Heart disease classification
        </div>
      </div>
    </div>
  </div>
</section>
```

```

        </div>
        <div id="text1">This mini project is an attempt to build a machine
learning model that can predict whether a patient has
        any heart disease or not, based on various medical attributes.
        <br><hr><br>
        <a
href="https://github.com/sourav200199/Heart_Disease_Classification" target="_blank">
        
        </a>
        </div>
    </div>
    <div id="card2">
        <div id="label2">
            Bulldozer price prediction
        </div>
        <div id="text2">In this project, I have tried to predict the price of
bulldozers with the help of Scikit-Learn's
            RandomForestRegressor() machine learning model.
            <br><hr><br>
            <a href="https://github.com/sourav200199/Bulldozer-price-prediction"
target="_blank">
                
            </a>
        </div>
    </div>
    <div id="card3">
        <div id="label3">
            VIT Event Registration Program
        </div>
        <div id="text3">This is a basic application to register students for any
event and keep a record.
            <br><hr><br>
            <a href="https://github.com/sourav200199/VIT-Student-Program-
Managent" target="_blank">
                
            </a>
        </div>
    </div>
</div>
</section>
<div class="footer">
    <div class="follow">
        <a href="#content"></a>
        <h2 class="name">Thank you for visiting my website.</h2>
        <h4 class="name">Follow Me:</h4>
        <div class="social">
            <a href="https://www.linkedin.com/in/sourav-chakraborty-745599238/"
class="foot-items" target="_blank">
                

```

```

        </a>
        <a href="https://github.com/sourav200199" class="foot-items" target="_blank">
            
        </a>
        <a href="mailto:sourav.992001@gmail.com" class="foot-items"></a>
    </div>
</div>
<script src="Script/main.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/three.js/0.146.0/three.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/vanta/0.5.24/vanta.fog.min.js"></script>
<script>
    VANTA.FOG({
        el: "#content",
        mouseControls: true,
        touchControls: true,
        gyroControls: false,
        minHeight: 200.00,
        minWidth: 200.00,
        highlightColor: 0xd1e1b,
        midtoneColor: 0x554bbe,
        lowlightColor: 0x7b64e6,
        baseColor: 0x6d68c0
    })
</script>
</body>
</html>

```

style.css

```

/* -----HTML and Body----- */
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Open sans';
}

html{
    scroll-behavior: smooth;
}

body{
    font-family: 'Poppins', 'sans-serif';
}

/* -----Header----- */

```

```
#nm{
  margin-bottom: 4px;
  transition: all 1s ease;
}

h2 a{
  text-decoration: none;
  padding: 2px;
}

.menu{
  width: 100%;
  position: fixed;
  top: 5px;
  height: fit-content;
  display: flex;
  justify-content: space-between;
  z-index: 100000;
}

.menu.sticky{
  background-color: #010e38;
  border-bottom: 1px solid rgb(121, 215, 244);
}

#bar{
  position: fixed;
  top: 0px;
  width: 100%;
  height: 5px;
  background-color: rgba(0,27,74,255);
  z-index: 1000;
}

#progress{
  position: fixed;
  top: 0;
  left: 0;
  width: 100%;
  height: 5px;
  background-color: rgb(121, 215, 244);
  z-index: 1000;
}

.list-items{
  display: flex;
  align-items: center;
  list-style: none;
  margin-right: 20px;
}
```



```
}

.items{
  padding: 2px 15px 2px 15px;
  text-decoration: none;
  color: white;
  letter-spacing: 1px;
  font-size: 18px;
  font-weight: 400;
  cursor: pointer;
  transition: all 1.5s ease;
}

.items:hover{
  background-color: #fff;
  color: rgb(2, 2, 64);
  border-radius: 5px;
}

.name{
  color: white;
  letter-spacing: 5px;
  font-weight: 600;
  margin: 10px 0 10px 15px;
}

#surname{
  color: rgb(5, 5, 82);
}

#surname.sticky{
  color: rgb(101, 76, 198);
}

.buttons{
  margin: 5px;
  padding: 2px;
  display: none;
}

/* -----Intro scetion----- */

/*0. Container */

#content{
  display: flex;
  align-items: center;
  justify-content: center;
  height: 100vh;
  width: 100%;
```

```
}

@keyframes scale {
  100% {
    transform: scale(1);
  }
}

/* 1. Profile photo*/

#self{
  width: 350px;
  height: 350px;
  border-radius: 50%;
  margin: auto;
  aspect-ratio: auto;
  border: 1px solid white;
}

.image{
  margin: 0px 0px 0px 30px;
  padding: 10px;
}

/*2. Small Description */

#intro{
  margin: 0px 0px 0px 0px;
  padding: 10px 5px 10px 5px;
  text-align: left;
  color: white;
}

.intro-heading{
  font-size: 50px;
  font-weight: 600;
  transition: all 1s ease;
  opacity: 0;
  filter: blur(4px);
  animation: fade-in 0.8s 0.8s forwards cubic-bezier(0.11, 0, 0.5, 0);
}

.intro-text{
  font-size: 20px;
  font-weight: 500;
  letter-spacing: 1px;
  line-height: 30px;
}
```

```

.intro-heading:hover, #span1:hover, #span2:hover, #span3:hover, #nm:hover{
    text-shadow: 0 0 20px #fff, 0 0 30px #0c6eb0, 0 0 40px #0b4e7b, 0 0 50px #0975bd, 0 0
60px #0c3652, 0 0 70px #56b2f0,
    0 0 80px #4891c2;
}

#span1{
    opacity: 0;
    filter: blur(4px);
    animation: fade-in 0.8s 1.3s forwards cubic-bezier(0.11, 0, 0.5, 0);
    transition: all 0.5s ease-in;
}

#span2{
    opacity: 0;
    filter: blur(4px);
    animation: fade-in 0.8s 1.8s forwards cubic-bezier(0.11, 0, 0.5, 0);
    transition: all 0.5s ease-in;
}

#span3{
    opacity: 0;
    filter: blur(4px);
    animation: fade-in 0.8s 2.3s forwards cubic-bezier(0.11, 0, 0.5, 0);
    transition: all 0.5s ease-in;
}

@keyframes fade-in {
    100% {
        opacity: 1;
        filter: blur(0);
    }
}

/* -----About, Skills and Project Section----- */

/*---Common---*/

#about, #skills, #projects{
    height: 100vh;
    width: 100%;
    background-color: white;
    /* display: flex; */
    align-items: center;
    justify-content: center;
    margin: 0px;
    transition: all 1s ease;
}

.heading{

```

```
font-size: 40px;
font-weight: 400;
color: white;
}

.part1{
  display: flex;
  align-items: center;
  height: 100%;
  max-width: 400px;
  min-width: 400px;
  font-size: 40px;
  padding: 0px 20px 0px 20px;
  border-top: 5px solid rgb(101, 76, 198);
  border-right: 25px solid rgb(101, 76, 198);
  border-bottom: 5px solid rgb(101, 76, 198);
  background-color: #010e38;
}

/*1. About Section */

.container{
  display: flex;
  align-items: center;
  height: 100%;
  width: 100%;
  margin: auto;
}

.content-text{
  font-size: 25px;
  height: fit-content;
  text-align: center;
  margin: auto;
}

/*2. Skills Section */

.container1{
  display: flex;
  align-items: center;
  height: 100%;
  width: 100%;
}

.content-text1{
  display: flex;
  align-items: center;
  font-size: 20px;
  height: fit-content;
```

```
    text-align: center;
    margin: auto;
}

.skills{
    margin: 25px;
    padding: 10px;
    text-align: left;
}

.skills-list{
    list-style-type: none;
    text-align: left;
}

/*3. Projects Section */

.container2{
    display: flex;
    align-items: center;
    height: 100%;
    width: 100%;
}

.content-text2{
    display: flex;
    align-items: center;
    justify-content: space-between;
    margin: auto;
    font-size: 25px;
}

#card1, #card2, #card3{
    height: 300px;
    width: 260px;
    margin: 8px;
    padding: 10px;
    background-color: #010e38;
    border-radius: 8px;
    transition: all 0.5s ease;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    overflow: auto;
}

#label1, #label2, #label3{
    color: white;
    text-align: center;
}
```

```
    font-size: 20px;
}

#card1:hover, #card2:hover, #card3:hover{
    transform: scale(1.05);
}

#text1, #text2, #text3{
    display: none;
    color: white;
    overflow: auto;
    font-size: 15px;
    text-align: left;
    padding: 1px;
}

.proj-link{
    height: 25px;
    border-radius: 50%;
}

.proj-link:hover{
    transform: scale(1.1);
}

/* -----Footer Section----- */
.footer{
    border-top: 1px solid white;
    width: 100%;
    background-color: #010b27;
    margin: auto;
    transition: all 1s ease;
}

#logo{
    height: 100px;
    width: 100px;
    border-radius: 50%;
    margin: 12px;
    padding: 2px;
    border: 1px solid white;
    transition: all 1s ease-in;
}

.follow{
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    margin: auto;
```

```

}

.foot-items{
  list-style: none;
  margin: 1px;
  padding: 2px 8px 2px 8px;
}

.social img{
  padding: 1px;
  border: 2px solid white;
  border-radius: 50%;
  transition: all 0.5s ease-in;
}

.social img:hover, #logo:hover{
  box-shadow: 0 0 20px #fff, 0 0 30px #4891c2, 0 0 40px #4891c2, 0 0 50px #4891c2, 0 0 60px
#4891c2,
  0 0 70px #4891c2, 0 0 80px #4891c2;
}

/* -----Responsive section----- */

@media screen and (max-width: 1219px){
  #card1, #card2, #card3{
    height: 220px;
    width: 180px;
    margin: 3px;
  }
}

@media screen and (max-width: 1024px){
  #card1, #card2, #card3{
    height: 210px;
    width: 160px;
  }

  .content-text1{
    font-size: 18px;
  }
}

@media screen and (max-width: 971px)
{
  .content-text1{
    text-align: center;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    width: 200px;
  }
}

```

```
        font-size: 20px;
    }

    .skills{
        width: 200px;
    }
}

@media screen and (max-width: 900px)
{
    .image{
        margin-right: 30px;
    }
    .intro{
        padding-left: 20px;
    }
    .part1{
        max-width: 400px;
        min-width: 300px;
    }
    .heading{
        font-size: 25px;
    }
    .skills-list{
        font-size: 18px;
    }

    .content-text{
        font-size: 18px;
        margin: 5px;
    }
    .content-text2{
        font-size: 20px;
        flex-direction: column;
    }
    #card1, #card2, #card3{
        height: 200px;
        width: 180px;
    }
}

@media screen and (max-width: 670px)
{
    .buttons{
        display: block;
        z-index: 100;
    }
    .list-items{
        display: block;
        position: absolute;
    }
}
```



```
    text-align: center;
    background-color: rgb(0, 0, 79);
    top: 0px;
    left: -100%;
    height: 100vh;
    width: 100%;
    padding: 10px;
    transition: 1s ease-in-out;
}

.list-items li{
    padding: 10px;
    margin: 20px;
    border-bottom: 1px solid white;
}

.list-items.active{
    left: 0%;
}

.part1{
    display: block;
    text-align: center;
    height: fit-content;
    justify-content: center;
    padding: 10px;
    border-top: 5px solid rgb(101, 76, 198);
    border-right: 0px;
    border-left: 0px;
    border-bottom: 5px solid rgb(101, 76, 198);
}

.container, .container1, .container2{
    flex-direction: column;
    justify-content: center;
}

#content{
    flex-direction: column-reverse;
    width: auto;
}

#self{
    height: 270px;
    width: 250px;
    border-radius: 50%;
}

.skills{
    margin-top: 0px;
```

```

        margin-bottom: 0px;
        padding-top: 0px;
        padding-bottom: 2px;
        width: 200px;
    }

    .content-text1{
        flex-direction: column;
        max-width: 350px;
        min-width: none;
        margin-top: 10px;
        margin-bottom: 10px;
    }

    .content-text2{
        flex-direction: column;
        max-width: 300px;
        min-width: none;
        margin-top: 0px;
        margin-bottom: 0px;
    }

    #card1, #card2, #card3{
        height: 175px;
        width: 180px;
        margin: 5px;
        padding: 2px;
    }

    .footer{
        flex-direction: column;
        align-items: center;
        justify-content: center;
    }
}

@media screen and (max-width:281px) {

    #self{
        height: 200px;
        width: 200px;
    }

    #nm{
        font-size: 20px;
    }

    .content-text, .content-text1, .skills{
        font-size: 15px;
    }
}

```

```
}
```

main.js

```
$(document).ready(function()
{
    $(".cross").hide();
    $(".hamburger").click(function() {
        $(".list-items").toggleClass("active");
    });

    $(window).scroll(function() {
        if ($(this).scrollTop() > 100) {
            $(".menu").addClass("sticky");
            $("#surname").addClass("sticky");
        } else {
            $(".menu").removeClass("sticky");
            $("#surname").removeClass("sticky");
        }
    });

});

$(document).on("scroll", function(){
    var pixels = $(document).scrollTop();
    var pageHeight = $(document).height() - $(window).height();
    var progress = 100 * pixels / pageHeight;

    $("#progress").css("width", progress + "%");
})

$(document).on({
    mouseenter: function () {
        $("#text1").css("display", "block");
        $("#label1").css("display", "none");
    },

    mouseleave: function () {
        $("#text1").css("display", "none");
        $("#label1").css("display", "block");
    }
}, '#card1');

$(document).on({
    mouseenter: function () {
        $("#text2").css("display", "block");
        $("#label2").css("display", "none");
    },
```

```

        mouseleave: function () {
            $("#text2").css("display", "none");
            $("#label2").css("display", "block");
        }
    }, '#card2');

$(document).on({
    mouseenter: function () {
        $("#text3").css("display", "block");
        $("#label3").css("display", "none");
    },

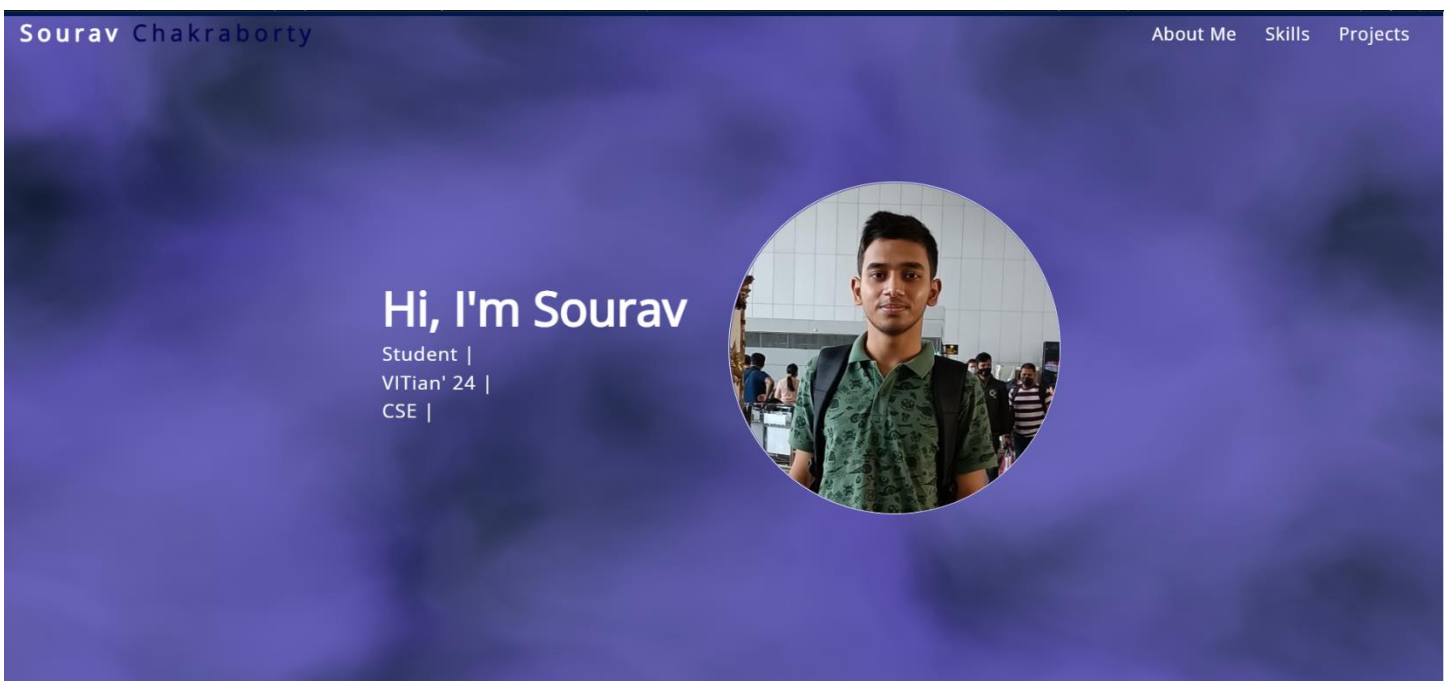
    mouseleave: function () {
        $("#text3").css("display", "none");
        $("#label3").css("display", "block");
    }
}, '#card3');

```

SCREENSHOTS

1.

The landing page, with an **animated background** running behind, having a **glow-effect** on the texts on hover, a **navbar** that changes its color when scrolled, and a **progress bar** on the top (it gets filled as you scroll down)–



2.

About section –

Sourav Chakraborty

About Me Skills Projects

About Me

I am a third year engineering student pursuing B. Tech in CSE with specialization in bioinformatics from VIT., Vellore.

I do love problem solving and aspire to become a web developer.

I have done my schooling from Saint Xavier's school, Raiganj.

Playing football, watching animes and reading books are some of my hobbies.

3.

Skills section –

Sourav Chakraborty

About Me Skills Projects

Skills

1. Programming Languages:

C
C++
Python
Java

2. Web Development:

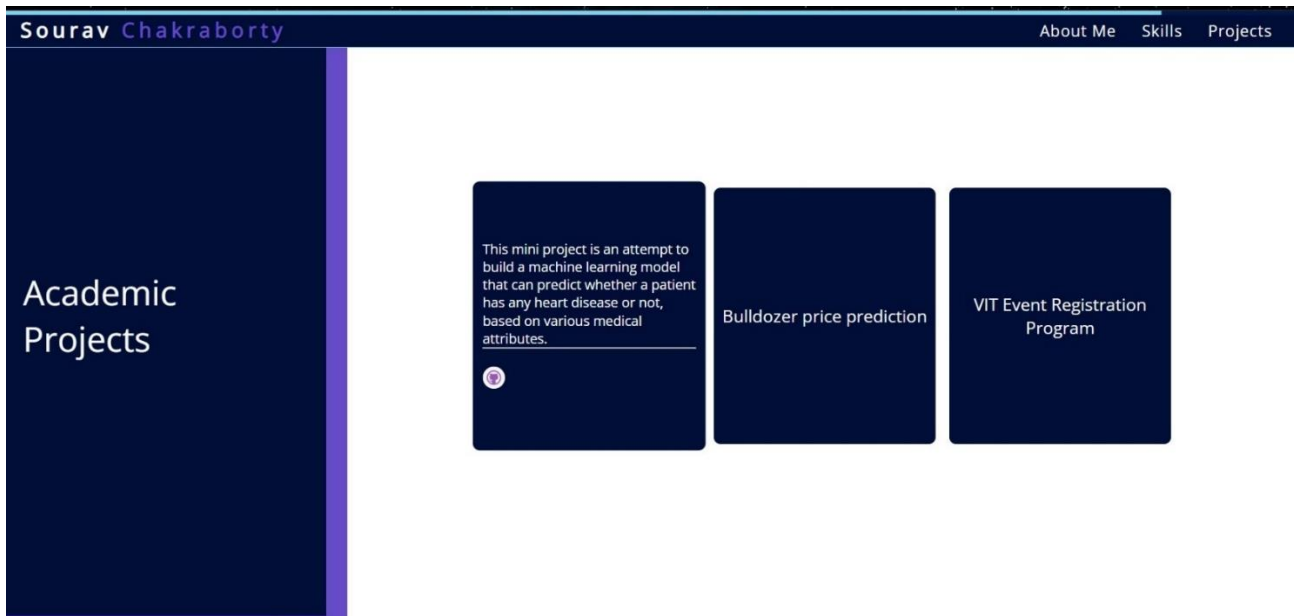
HTML
CSS
JavaScript
Bootstrap
jQuery
PHP
MySQL

3. ML:

NumPy
Pandas
Matplotlib
Scikit learn

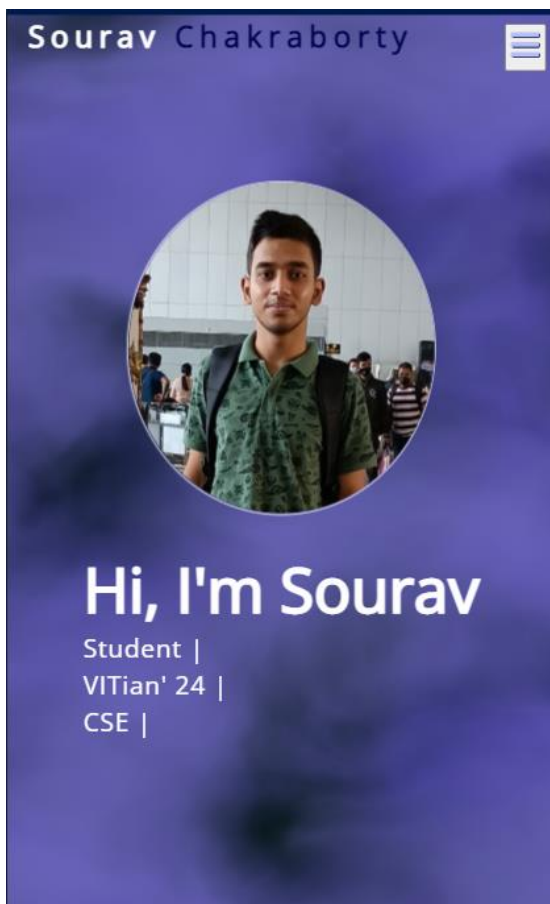
4.

Projects section (shows on the project title. Gives a short description as well as the GitHub repository link on **hover**) –



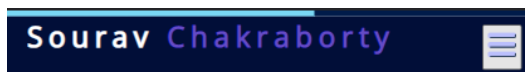
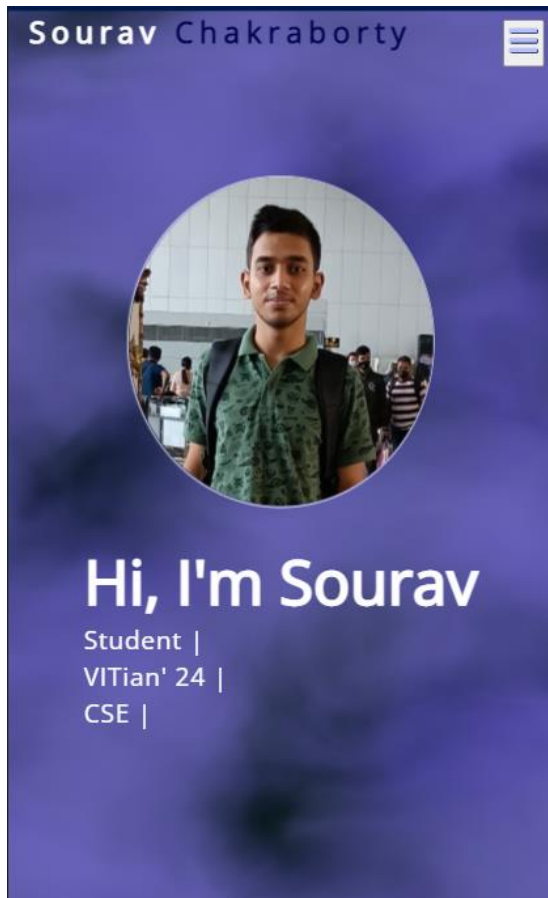
5.

Responsiveness (As the screen gets smaller, the **navbar** is replaced with a **Hamburger menu** for better viewing experience) –



6.

Responsiveness (the Introduction, “About Me”, “Skills” and “Academic Projects” sections) –



1. Programming Languages:

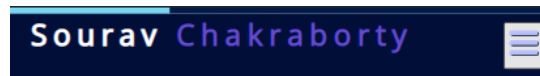
C
C++
Python
Java

2. Web Development:

HTML
CSS
JavaScript
Bootstrap
jQuery
PHP
MySQL

3. ML:

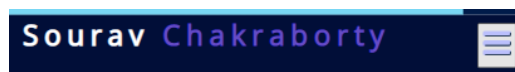
NumPy
Pandas
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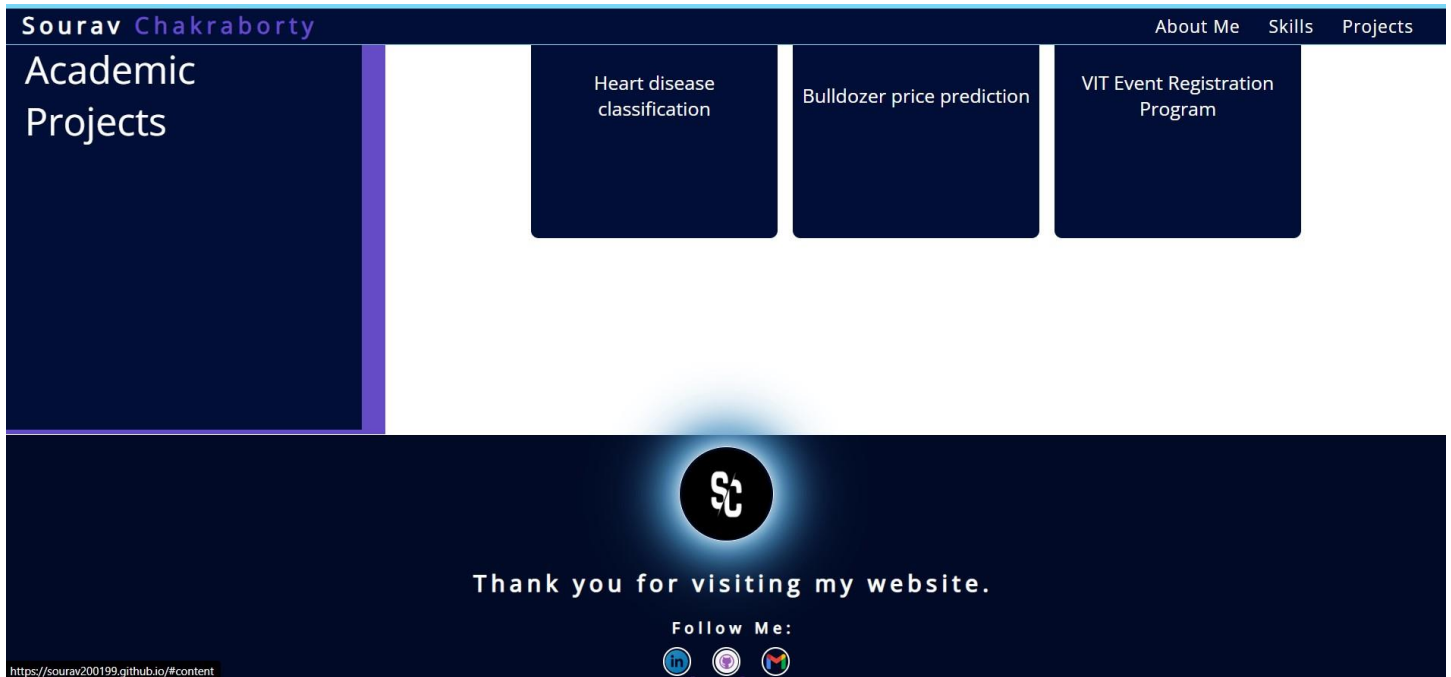
Heart disease classification

Bulldozer price prediction

VIT Event Registration Program

7.

The footer (a responsive footer with **glowing-icons** on hover) –



Footer responsiveness –

