DR.ZAKIR HUSAIN COLLEGE, ILAYANGUDI PG DEPARTMENT OF MATHEMATICS

PROJECT TITLE:

ANALYZING THE PERFORMANCE OF AND EFFICIENCY OF THE RADISSON HOTELS USING DATA VISUALIZATION TECHNIQUES

Submitted By,

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Dr.ZAKIR HUSAIN COLLEGE, ILAYANGUDI

1 INTRODUCTION

1.1 Overview

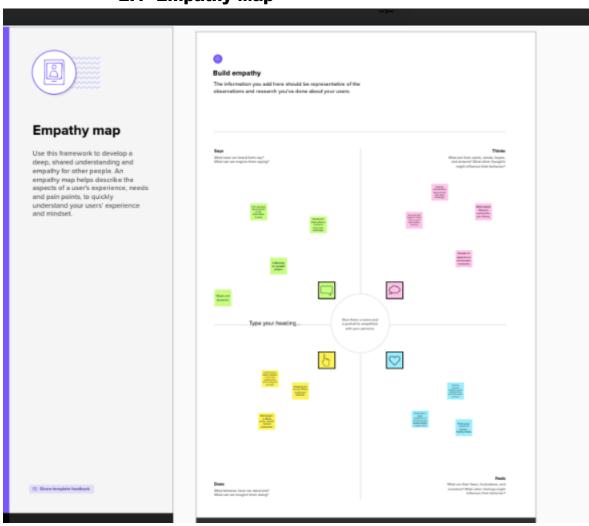
The Hotel Industry is a broad category of business that provide lodging services for travelers and tourists .Radisson owns multiple Five-star hotels across India. Hotels can be found in nearly every corner of the world, and are often a major component of the tourism and travel industry in a given area.

1.2 purpose

By conducting an analysis the company can identify areas for improvement and take steps to enhance the customer experience , and increase customer satisfaction and loyalty.

2 Problem Definition & Design Thinking

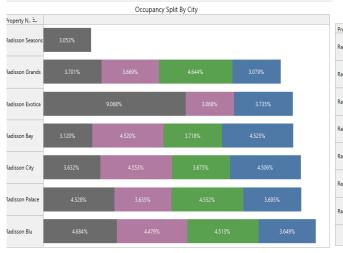
2.1 Empathy Map

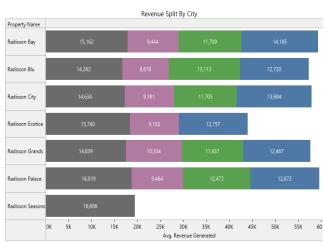


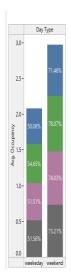
2.2 Ideation & Brainstorming Map



3 RESULT

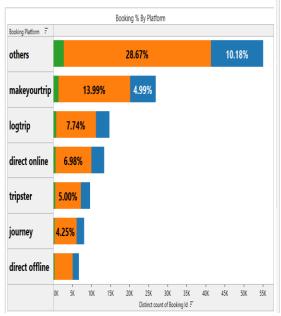






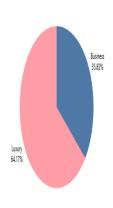
Occupancy By Day Type

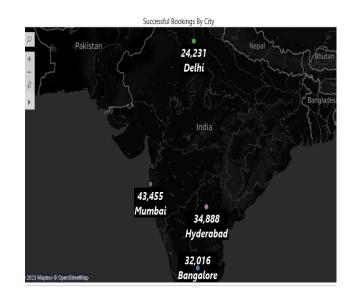


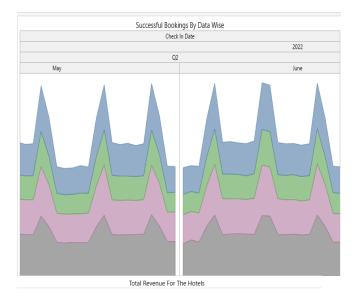


				Property	perty By Key Metrics			
Property Name	Property Id .	Revenue	Capacity S	uccessful Bookir	igs occupancy.	. Cancelled Booking %		
Radisson Bay	16562	\$0.00M	9,016	4,820	53.46%	0.00%		
	17562	\$0.00M	7,636	3,424	44.84%	0.00%		
	18562	\$0.00M	11,132	7,333	65.87%	0.00%		
	19562	\$0.00M	8,832	5,812	65.81%	0.00%		
Radisson Blu	16561	\$0.00M	6,716	4,418	65.78%	0.00%		
	17561	\$0.00M	7,820	5,183	66.28%	0.00%		
	18561	\$0.00M	9,844	6,458	65.60%	0.00%		
	19561	\$0.00M	10,764	5,736	53.29%	0.00%		
Radisson City	16560	\$0.00M	8,740	4,693	53.70%	0.00%		
	17560	\$0.00M	11,316	6,013	53.14%	0.00%		
	18560	\$0.00M	10,028	6,638	66.19%	0.00%		
	19560	\$0.00M	9,108	5,979	65.65%	0.00%		
	16559	\$0.00M	11,132	7,338	65.92%	0.00%		
adisson Exotica	17559	\$0.00M	9,292	6,142	66.10%	0.00%		
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	16558	\$0.00M	4,784	3,153	65.91%	0.00%		
adiceon Grande	17558	\$0.00M	9,384	5,036	53.67%	0.00%		
Radisson Grands	18558	\$0.00M	8,372	4,475	53.45%	0.00%		
	19558	\$0.00M	9,844	4,371	44.40%	0.00%		
	16563	\$0.00M	10,764	7,147	66.40%	0.00%		
Radisson Palace	17563	\$0.00M	9,568	6,337	66.23%	0.00%		
nauisson Palace	18563	\$0.00M	8,924	4,728	52.98%	0.00%		

Revenue Contribution % By Category







\$0.01M

Total Successful Booking Cocupancy in %

134.59K

Story

Mumbai has made heighest no of Successful Bookings 43,455

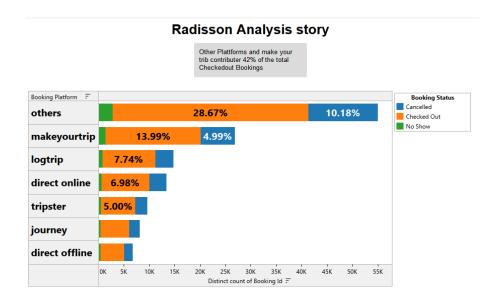


All properties have average 25%cancellation rate and 50%occupancy rate

Property Name	Property Id .	. Revenue	Capacity	Successful Bookings	occupancy	Cancelled Booking %
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	18563	\$0.00M	8,924	4,728	52.98%	0.00%
	19563	\$0.00M	10 120	5 413	53.49%	0.00%

Elite and premium Room classes





4 Advantages and Disadvantages

Advantages:

- > Guests to experience memorable moments.
- > Comfortable and well equipped rooms.
- > Clean and Tidy Environment.
- > Free Internet Access.
- > Quality customer service.

DISADVANTAGES:

- > The guest may be less likely to experience local food.
- Food and Drinks are much more expensive than average.

- > It usually comprises a high-pressure environment.
- > It can involve long working hours.
- > It may involve extensive physical work.

5 APPLICATIONS:

- > Hospitality Management.
- > Sporting event venue & Restaurant.
- > Cruises and other tourism-related business.
- > Food and Beverage service Industry.
- > Technology sectors within the Hospitality Industry.

6 CONCLUSION

Radisson owns multiple five-star hotels across India. They have been in the hospitality industry for the past 100 years. Due to strategic moves from other competitors and ineffective decision-making in management, Radisson is losing its market share and revenue in the luxury/business hotels category.

7 FUTURE SCOPE

- > Airline Catering.
- Hotel and Tourism Associations.
- Food and Beverages.
- Entertainment and Recreation.

<u>8 APPENDIX</u>

A. source code

```
!DOCTYPE html>
<html lang="en">
 <meta charset="utf-8">
 <meta content="width=device-width, initial-scale=1.0" name="viewport">
 <title>Radisson Hotel</title>
 <meta content="" name="description">
 <meta content="" name="keywords">
 <link rel="stylesheet" href="{{url_for('static',filename='img/favicon.png')}}" rel="icon">
 <link rel="stylesheet" href="{{url_for('static',filename='img/apple-touch-icon.png')}}" rel="apple-</pre>
touch-icon">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/animate.css/animate.min.css')}}">
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Playfair+Dis
play:ital,wght@0,400;0,500;0,600;0,700;1,400;1,500;1,600;1,700|Poppins:300,300i,400,400i,500,500i,600,60
0i,700,700i" rel="stylesheet">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/animate.css/animate.min.css')}}">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/aos/aos.css')}}">
<link rel="stylesheet" href="{{url_for('static',filename='vendor/bootstrap/css/bootstrap.min.css')}}">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/bootstrap-icons/bootstrap-</pre>
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/boxicons/css/boxicons.min.css')}}">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/glightbox/css/glightbox.min.css')}}">
 <link rel="stylesheet" href="{{url_for('static',filename='vendor/swiper/swiper-bundle.min.css')}}">
 <!-- Template Main CSS File -->
 <link rel="stylesheet" href="{{url_for('static',filename='css/style.css')}}">
 * Author: BootstrapMade.com
 <div id="topbar" class="d-flex align-items-center fixed-top">
      <div class="contact-info d-flex align-items-center">
        <i class="bi bi-phone d-flex align-items-center"><span>+91 9589 55488 55</span></i>
        <i class="bi bi-clock d-flex align-items-center ms-4"><span> Mon-Sat: 10:00AM -
11:00PM</span></i>
```

```
<header id="header" class="fixed-top d-flex align-items-cente">
   <div class="container-fluid container-xl d-flex align-items-center justify-content-lg-between">
     <h1 class="logo me-auto me-lg-0"><a href="{{ url_for('index') }}">Radisson Hotel</a></h1>
     <!-- Uncomment below if you prefer to use an image logo --:
     <!-- <a href="index.html" class="logo me-auto me-lg-0"><img src="assets/img/logo.png" alt=""
     <nav id="navbar" class="navbar order-last order-lg-0">
         <a class="nav-link scrollto active" href="#hero">Home</a>
         <a class="nav-link scrollto" href="#about">About</a>
         <a class="nav-link scrollto" href="#events">Events/a>
         <a class="nav-link scrollto" href="#chefs">Dashboard & Story</a>
         <a class="nav-link scrollto" href="#gallery">Gallery</a>
         <a class="nav-link scrollto" href="#contact">Contact</a>
       <i class="bi bi-list mobile-nav-toggle"></i>
 <!-- ====== Hero Section ====== -->
 <section id="hero" class="d-flex align-items-center">
   <div class="container position-relative text-center text-lg-start" data-aos="zoom-in" data-aos-</pre>
delay="100">
     <div class="row">
       <div class="col-lg-8">
         <h1>Welcome to <span>Radisson Hotel</span></h1>
         <h2>Radisson Hotels is an international hotel chain headquartered in the United States. A
division of the Radisson Hotel Group, it operates the brands Radisson Blu, Radisson RED, Radisson
Collection, Country Inn & Suites, and Park Inn by Radisson, among others.</hd>
       <div class="col-lg-4 d-flex align-items-center justify-content-center position-relative" data-</pre>
aos="zoom-in" data-aos-delay="200">
         <a href="https://www.youtube.com/watch?v=u6BOC7CDUTQ" class="glightbox play-btn"></a>
 </section><!-- End Hero -->
 <main id="main">
   <section id="about" class="about">
     <div class="container" data-aos="fade-up">
       <div class="row">
         <div class="col-lg-6 order-1 order-lg-2" data-aos="zoom-in" data-aos-delay="100">
           <div class="about-img">
              <img src="static/img/about.jpg" alt="">
         <div class="col-lg-6 pt-4 pt-lg-0 order-2 order-lg-1 content">
           <h3>Radisson Hotel Analysis</h3>
```

Radisson owns multiple five-star hotels across India. They have been in the hospitality industry for the past 100 years. Due to strategic moves from other competitors and ineffective decision-making in management, Radisson are losing its market share and revenue in the luxury/business hotels category. As a strategic move, the managing director of Radisson wanted to incorporate Business and Data Intelligence in order to regain their market share and revenue.

```
<section id="events" class="events">
 <div class="container" data-aos="fade-up">
   <div class="section-title">
     <h2>Events</h2>
     Organize Your Events in our Radisson Hotel
   <div class="events-slider swiper" data-aos="fade-up" data-aos-delay="100">
     <div class="swiper-wrapper">
         <div class="row event-item">
           <div class="col-lg-6">
             <img src="static/img/event-birthday.jpg" class="img-fluid" alt="">
           <div class="col-lg-6 pt-4 pt-lg-0 content">
             <h3>Birthday Parties</h3>
             <div class="price">
               <span>$189</span>
           <div class="col-lg-6">
             <img src="static/img/event-private.jpg" class="img-fluid" alt="">
           <div class="col-lg-6 pt-4 pt-lg-0 content">
             <h3>Private Parties</h3>
             <div class="price">
               <span>$290</span>
```

```
<div class="col-lg-6">
                                        <img src="static/img/event-custom.jpg" class="img-fluid" alt="">
                                  <div class="col-lg-6 pt-4 pt-lg-0 content">
                                        <h3>Custom Parties</h3>
                                        <div class="price">
                                             <span>$99</span>
                 <div class="swiper-pagination"></div>
</section><!-- End Events Section -->
<section id="gallery" class="gallery">
     <div class="container" data-aos="fade-up">
           <div class="section-title">
                <h2>Gallery</h2>
                 Some photos from Our Restaurant
     <div class="container-fluid" data-aos="fade-up" data-aos-delay="100">
           <div class="row g-0">
                <div class="col-lg-3 col-md-4">
                      <div class="gallery-item">
                             <\!a\ href="static/img/gallery/gallery-1.jpg"\ class="gallery-lightbox"\ data-gall="gallery-1.jpg"\ class="gallery-lightbox"\ data-gallery-lightbox"\ data-gallery-lightbox="gallery-1.jpg"\ data-gallery-lightbox="gallery-lightbox"\ data-gallery-lightbox="gallery-lightbox"\ data-gallery-lightbox="gallery-lightbox"\ data-gallery-lightbox="gallery-lightbox="gallery-lightbox"\ data-gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="gallery-lightbox="galle
                                  <img src="static/img/gallery/gallery-1.jpg" alt="" class="img-fluid">
                 <div class="col-lg-3 col-md-4">
                      <div class="gallery-item">
                            <a href="static/img/gallery/gallery-2.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
                                  <img src="static/img/gallery/gallery-2.jpg" alt="" class="img-fluid">
                 <div class="col-lg-3 col-md-4">
                      <div class="gallery-item">
```

```
<a href="static/img/gallery/gallery-3.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
item">
                <img src="static/img/gallery/gallery-3.jpg" alt="" class="img-fluid">
           <div class="gallery-item">
             <a href="static/img/gallery/gallery-4.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
               <img src="static/img/gallery/gallery-4.jpg" alt="" class="img-fluid">
         <div class="col-lg-3 col-md-4">
           <div class="gallery-item">
             <a href="static/img/gallery/gallery-5.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
item">
                <img src="static/img/gallery/gallery-5.jpg" alt="" class="img-fluid">
         <div class="col-lg-3 col-md-4">
           <div class="gallery-item">
             <a href="static/img/gallery/gallery-6.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
item">
               <img src="static/img/gallery/gallery-6.jpg" alt="" class="img-fluid">
         <div class="col-lg-3 col-md-4">
           <div class="gallery-item">
             <a href="static/img/gallery/gallery-7.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
               <img src="static/img/gallery/gallery-7.jpg" alt="" class="img-fluid">
         <div class="col-lg-3 col-md-4">
           <div class="gallery-item">
              <a href="static/img/gallery/gallery-8.jpg" class="gallery-lightbox" data-gall="gallery-</pre>
               <img src="static/img/gallery/gallery-8.jpg" alt="" class="img-fluid">
     <div class="container" data-aos="fade-up">
        <div class="section-title">
```

```
<div class='tableauPlaceholder' id='viz1681787397453' style='position: relative'><noscript><a</pre>
href='#'><img alt='RADISSION HOSPITALITY ANALYSIS '</pre>
src='https://public.tableau.com/static/images/Ne/New_Dashboard_16817873090790&#4
7;Dashboard1/1_rss.png' <mark>style=</mark>'border: none' /></a></noscript><object class='tableauViz'
 style='display:none;'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param</pre>
name='embed_code_version' value='3' /> <param name='site_root' value='' /><param name='name'</pre>
value='New_Dashboard_16817873090790/Dashboard1' /><param_name='tabs' value='no' /><param_
name='toolbar' value='yes' /><param name='static image'</pre>
value='https://public.tableau.com/static/images/Ne/New Dashboard_16817873090790&
#47;Dashboard1/1.png' /> <param name='animate_transition' value='yes' /><param
name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param</pre>
name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language'</pre>
value='en-US' /><param name='filter' value='publish=yes' /></object></div>
type='text/javascript'>
                                          var divElement = document.getElementById('viz1681787397453');
                  var vizElement = divElement.getElementsByTagName('object')[0];
( divElement.offsetWidth > 800 ) { vizElement.style.width='1320px';vizElement.style.height='4096px';}
else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='1320px';vizElement.style.height='4096px';} else {
vizElement.style.width='100%';vizElement.style.height='3527px';}
                                                                                    var scriptElement =
document.createElement('script');
                                                    scriptElement.src =
 https://public.tableau.com/javascripts/api/viz_v1.js';
 vizElement.parentNode.insertBefore(scriptElement, vizElement);
                                                                             </script>
        <div class='tableauPlaceholder' id='viz1681724009377' style='position: relative'><noscript><a</pre>
href='#'><img alt='Radisson Analysis story '</pre>
src='https://public.tableau.com/static/images/Ne/New_DashboardStory/Story1&#
47;1_rss.png' style='border: none' /></a></noscript><object class='tableauViz'
style='display:none;'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param</pre>
name='embed_code_version' value='3' /> <param name='site_root' value='' /><param name='name'</pre>
value='New_DashboardStory/Story1' /><param name='tabs' value='no' /><param name='toolbar'</pre>
value='yes' /><param name='static_image'</pre>
value='https://public.tableau.com/static/images/Ne/New_DashboardStory/Story1
/1.png' /> <param name='animate_transition' value='yes' /><param name='display_static_image'
value='yes' /><param name='display_spinner' value='yes' /><param name='display_overlay' value='yes'
/><param name='display_count' value='yes' /><param name='language' value='en-US' /><param name='filter'
value='publish=yeshttps%3A%2F%2Fpublic.tableau.com%2Fapp%2Fprofile%2Fafrin.flora.s%2Fviz%2FNew_Dashboard
Story%2FStory1%3Fpublish%3Dyes' /></object></div>
                                                                <script type='text/javascript'>
          var divElement = document.getElementById('viz1681724009377');
vizElement = divElement.getElementsByTagName('object')[0];
vizElement.style.width='1016px';vizElement.style.height='991px';
                                                                                   var scriptElement =
document.createElement('script');
                                                    scriptElement.src =
https://public.tableau.com/javascripts/api/viz_v1.js';
 vizElement.parentNode.insertBefore(scriptElement, vizElement);
                                                                             </script>
     <div class="container" data-aos="fade-up">
         <div class="col-lg-4">
           <div class="info">
               <i class="bi bi-geo-alt"></i>
               <h4>Location:</h4>
               Radisson Hotel Bhopal, Gulmohar Colony, Bhopal, Madhya Pradesh 462039
             <div class="open-hours">
               <i class="bi bi-clock"></i>
```

```
<h4>Open Hours:</h4>
                 Monday-Saturday:<br>
                 10:00 AM - 11:00 PM
             <div class="email">
               <i class="bi bi-envelope"></i></i>
               <h4>Email:</h4>
               info@radisson.com
             <div class="phone">
               <i class="bi bi-phone"></i>
               <h4>Call:</h4>
               +91 9589 55488 55
         <div class="col-lg-8 mt-5 mt-lg-0">
           <div class="mapouter"><div class="gmap_canvas"><iframe class="gmap_iframe" frameborder="0"</pre>
scrolling="no" marginheight="0" marginwidth="0"
src="https://maps.google.com/maps?width=600&height=400&hl=en&q=radisson
bhopal&t=&z=14&ie=UTF8&iwloc=B&output=embed"></iframe><a</pre>
href="https://mcpedls.com/">minecraft download</a></div><style>.mapouter{position:relative;text-
align:right;width:600px;height:400px;}.gmap_canvas
{overflow:hidden;background:none!important;width:600px;height:400px;}.gmap_iframe
{width:600px!important;height:400px!important;}</style></div>
    </section><!-- End Contact Section -->
     <div class="container">
         <div class="col-lg-3 col-md-6">
           <div class="footer-info">
             <h3>Radisson Hotel</h3>
               Radisson Hotel Bhopal, Gulmohar Colony <br>
               Bhopal, Madhya Pradesh 462039<br><br>>
               <strong>Phone:</strong> +91 9589 55488 55<br>
               <strong>Email:</strong> info@radisson.com<br>
              <div class="social-links mt-3">
               <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
               <a href="#" class="facebook"></i><i class="bx bxl-facebook"></i></a>
               <a href="#" class="instagram"></i class="bx bxl-instagram"></i></a>
               <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
               <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
```

```
<div class="col-lg-2 col-md-6 footer-links">
           <h4>Useful Links</h4>
             <i class="bx bx-chevron-right"></i> <a href="#">Home</a></or>
             <i class="bx bx-chevron-right"></i> <a href="#">About us</a>
             <i class="bx bx-chevron-right"></i> <a href="#">Services</a>
   <div class="container">
     <div class="copyright">
       © Copyright <strong><span>Radisson Hotel</span></strong>. All Rights Reserved
     <div class="credits">
       <!-- Purchase the pro version with working PHP/AJAX contact form:
       Designed by <a href="https://bootstrapmade.com/">SmartBridge</a>
 <div id="preloader"></div>
 <a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-</pre>
arrow-up-short"></i></a>
 <script src="{{ url_for('static', filename='vendor/aos/aos.js') }}"></script>
 <script src="{{ url_for('static', filename='vendor/bootstrap/js/bootstrap.bundle.min.js')</pre>
 <script src="{{ url_for('static', filename='vendor/glightbox/js/glightbox.min.js') }}"></script>
 <script src="{{ url_for('static', filename='vendor/isotope-layout/isotope.pkgd.min.js') }}"></script>
 <script src="{{ url_for('static', filename='vendor/php-email-form/validate.js') }}"></script>
 <script src="{{ url_for('static', filename='js/main.js') }}"></script>
```

