

CARS4U-ECOMMERCE PROJECT



Website- <https://cars-06.herokuapp.com>

Report

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APPROVAL

This project has been submitted to the following respected members, techno club (CODE FELLAS).

By the following students of Gautam Buddha University, batch (2019-2023) CSE:

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DECLARATION

This is to certify that this project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

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ABSTRACT

CARS4U is a demo project that help users buy cars that are right for them. The website carries rich automotive content such as expert reviews, detailed specs and prices, comparisons as well as videos and pictures of all car brands and models available in India.

We tried to implement maximum features to enhance the user interaction to ensure that users get an immersive experience of the car model before visiting a dealer showroom. These include a feel the car tool that gives 360-degree interior/exterior views with sounds of the car and explanations of features with videos; search and comparison by make, model, price, features; and live offers and promotions in all cities. We have also incorporated a chatbot for any guidance or any query visitor wants to clear.

Our vision is to construct a complete ecosystem for consumers and car manufactures, dealers and related businesses such that consumers have easy and complete access to not only buying and selling cars, but also manage their entire ownership experience, be it accessories, tyres, batteries, insurance or roadside assistance.

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INTRODUCTION

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

CARS4U is the leading car search business in India that helps users to buy the right car for them. Its website has rich car content such as expert reviews, detailed information and prices, comparisons and videos and photos of all types of cars and models available in India. The company has connected with many car manufacturers, car dealers and many financial institutions to facilitate car purchases.

CARS4U has introduced many new features to ensure users get in-depth knowledge of the car model before visiting the retailer's exhibition site. These include the Feel the Car tool that provides 360-degree indoor and outdoor views with car sounds and descriptions of video features; search and comparison performance, model, price, features; and live offers and promotions in all cities.

Our vision is to build a complete ecosystem for car buyers and sellers, dealers and related businesses so that buyers can easily and completely access not only buy and sell cars, but also carry all their personal information, be it accessories, tires, batteries, insurance or road assistance.

PROJECT DESCRIPTION

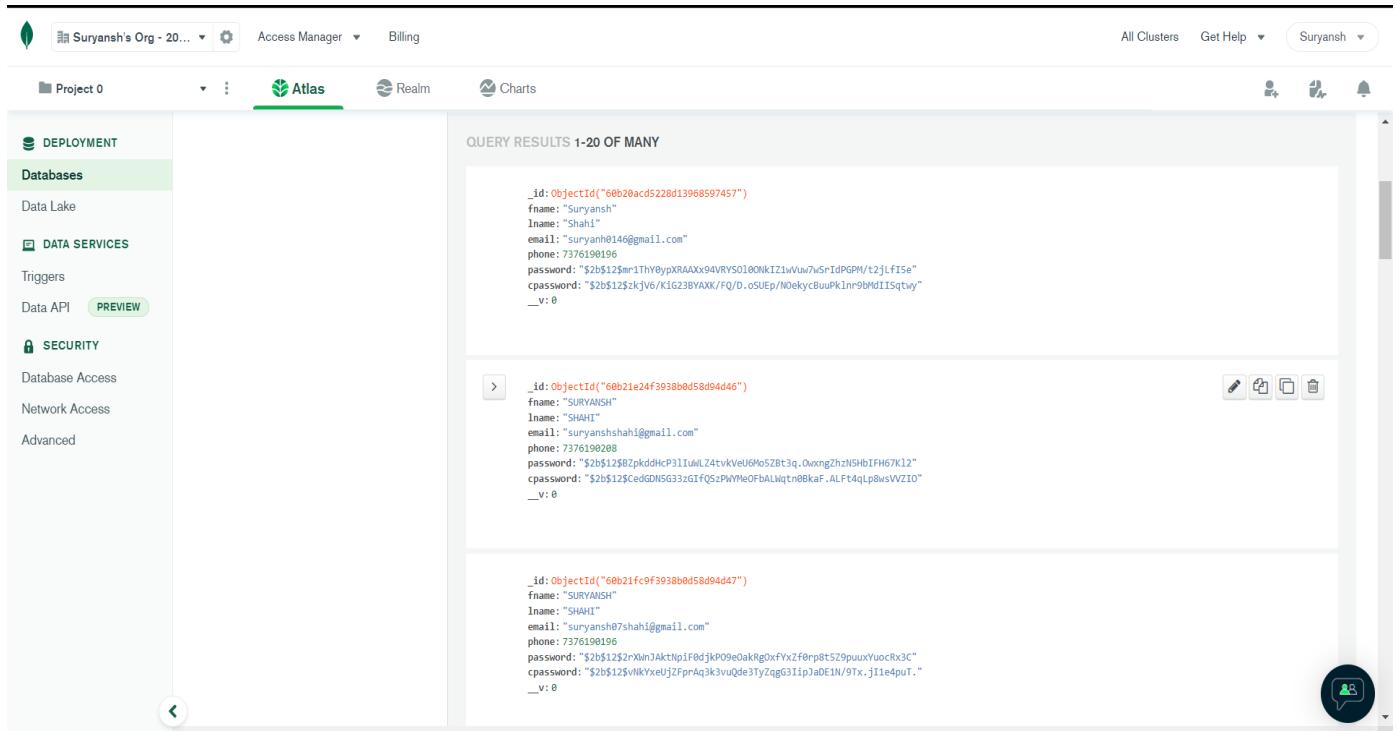
- ✚ Any visitor can register and view available cars.
- ✚ Not mandatory for visitor to Login or Sign-Up before accessing website.
- ✚ Contact Us page is available to contact Admin for queries.
- ✚ Visitors can view, search, compare available cars.
- ✚ Visitors can view and read all the specs.
- ✚ We have also incorporated a chatbot for any guidance or any query visitor wants to clear.
- ✚ Visitor can also book a test drive using chatbot.
- ✚ After successful Sign-Up, an email will also be sent automatically to the respective email used for signing Up.

DESIGN AND DEVELOPMENT ENVIRONMENT

- Reactjs
- Nodejs
- MongoDB
- Expressjs
- Bootstrap 5
- Material UI

DATABASE DESIGN

We have used MongoDB Database for this project



- All the credential details are stored on MongoDB database(cluster).
- If user Sign-up, first it checks in the MongoDB database if the user is already registered or not.
- If not, it allows users to sign-up. Otherwise, it asks the user to login.
- For a successful login, it checks if the user is registered or not.
- If not, it asks to sign-up. Otherwise, it asks for user's login details and verifies whether the password entered by the user matches with the corresponding email registered by the user.


```
File Edit Selection View Go Run Terminal Help
Menu.js - check - Visual Studio Code

JS App.js JS Menu.js M X
server > client > src > Data > JS Menu.js > Menu

1 const Menu = [
2   {
3     id: 1,
4     rate: "4.5",
5     image:
6       "https://stimg.cardekho.com/images/carexteriorimages/630x420/Land-Rover/Range-Rover/7880/1592549651483/front-left-side-47.jpg?tr=w-4
7     imageslider:
8       "https://stimg.cardekho.com/images/carexteriorimages/630x420/Land-Rover/Range-Rover/7880/1592549651483/front-left-side-47.jpg?tr=w-4
9     name: "Land Rover Range Rover",
10    category: "luxury",
11    price: "₹2.10 - 4.38 Cr*",
12    description: (
13      <p>...
14    </p>
15  ),
16
17  exterior: (
18    <video autoPlay loop muted className="w-100">...
19  </video>
20  ),
21
22  interior1:
23    "https://stimg.cardekho.com/images/carinteriorimages/930x620/Land-Rover/Range-Rover/7880/1592551483705/steering-wheel-54.jpg",
24  interior2:
25    "https://stimg.cardekho.com/images/carinteriorimages/930x620/Land-Rover/Range-Rover/7880/1592551483705/ac-controls-151.jpg",
26  interior3:
27    "https://stimg.cardekho.com/images/carinteriorimages/930x620/Land-Rover/Range-Rover/7880/1592551483705/door-view-of-driver-seat-51.j
28  interior4:
29    "https://stimg.cardekho.com/images/carinteriorimages/930x620/Land-Rover/Range-Rover/7880/1592551483705/entertainment-system-(rear)-1
30  color1:
31    "https://stimg.cardekho.com/images/car-images/930x620/Land-Rover/Range-Rover/7880/1592552439495/229_silicon-silver_9b9c9e.jpg",
32  color2:
33    "https://stimg.cardekho.com/images/car-images/930x620/Land-Rover/Range-Rover/7880/1592552439495/232_rossello-red_4a4952.jpg",
34  color3:
35    "https://stimg.cardekho.com/images/car-images/930x620/Land-Rover/Range-Rover/7880/1592552439495/239_narvik-black_17191c.jpg",
36  Engine: "2995cc",
37  seat: "5",
38  BHP: "335.25 - 557.86 Bhp",
39  specification: [ ...
40  ],
41  specification2: [ ...
42  ],
43  feature: [ ...
44  ],
45  feature2: [ ...
46  ],
47  topFeatures: [ ...
48  ],
49  ],
50 ];
```

All the data visible on the website is coming from an API created by us. Schema of API is as follows:

- ID-This field is used for unique id of cars.
- Rate-It is a numeric field used for displaying rating of cars.
- Image-This field is used for keeping types of car's pictures.
- Image Slider-This is an image for slider.
- Name-This field is used for keeping car's name.
- Category-This field is used for keeping types of cars.
- Price-This is a numeric field used for price of cars.
- Description-This field is used to display details about cars.
- Exterior-This field is used to show 360-degree review of the exterior of car.
- Interior-This field is used to show 360-degree review of the interior of the car.

DESIGN AND IMPLEMENTATION OF CARS4U

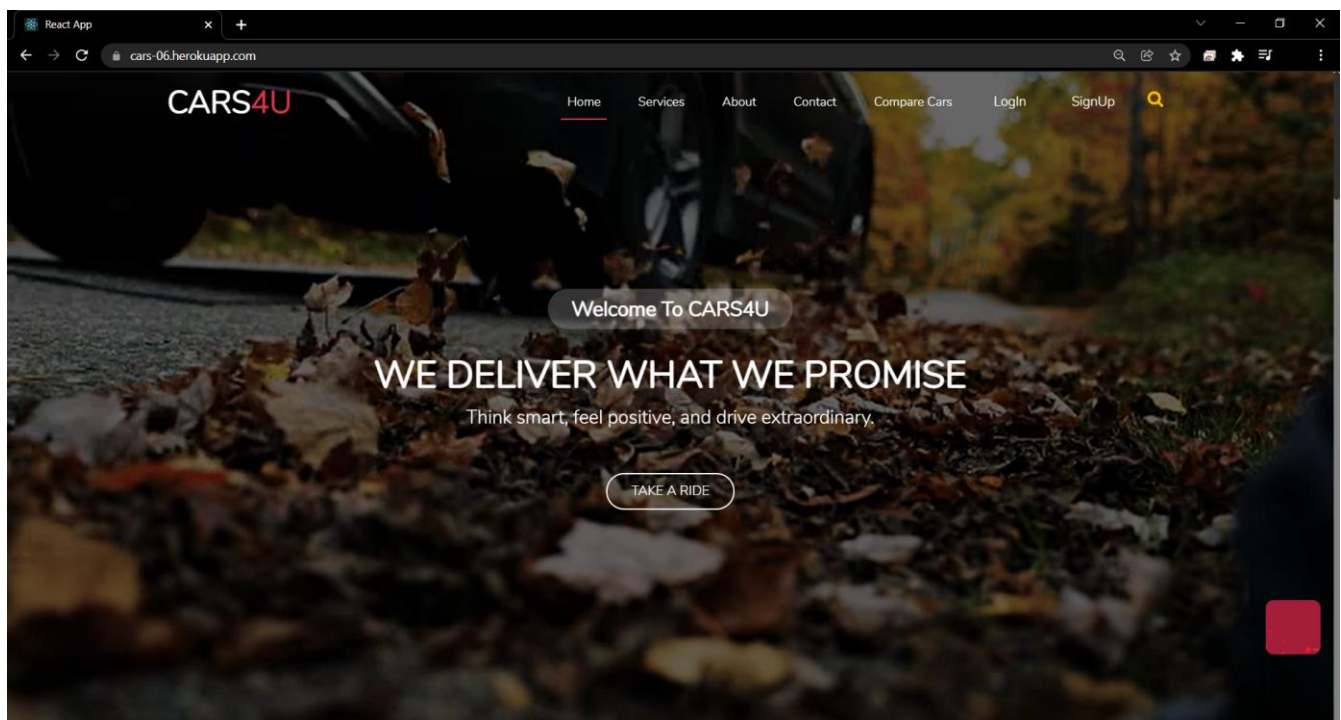
Web Pages details:

I. Navbar Includes:

- Home Page
- Services Page
- Contact Page
- Compare Cars
- About Page
- Login
- Sign-Up
- Search

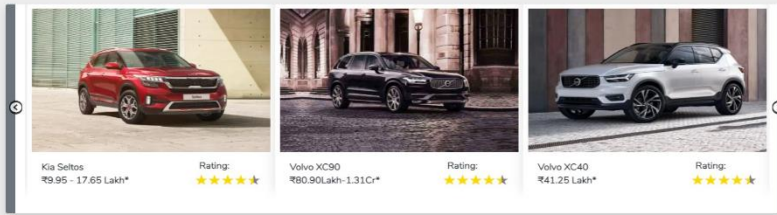
II. Deployment

HOME PAGE: This is home page or welcome page.

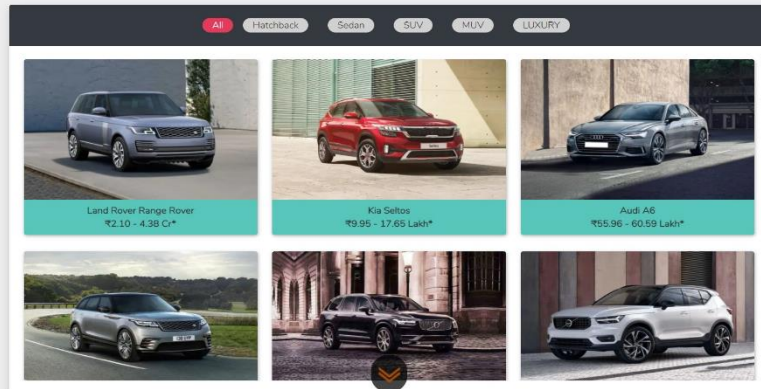


CARS4U

Recommended Cars For You



The Most Searched Cars



Popular Brands



Latest Cars



Upcoming Cars



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SERVICE PAGE: This is service page.


SERVICES

We do offer awesome Services



India's #1
Largest Auto Portal



Car Sold
Every 4 minute



Offers
Stay Updated pay less



Compare
Decode the right car


Popular Brands



Maruti



Hyundai



Honda



Tata



Mahindra



Renault



Ford



Nissan



Datson



Toyota



MG



Kia



Volkswagen



Skoda



Jeep



Isuzu



Audi



Mercedes-Benz



BMW



Jaguar



Volvo



Lexus



Land Rover



Porsche



Ferrari



Rolls-Royce



Bentley



DC



Bugatti



Force



Mitsubishi


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Lamborghini


Mini


Astin Martin


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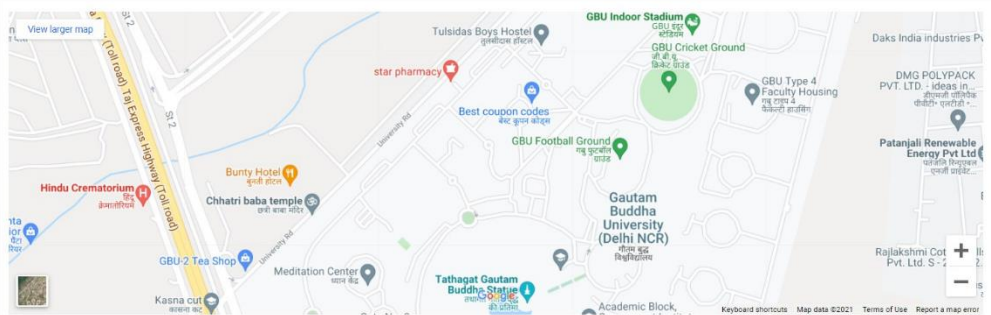
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CONTACT PAGE: This is contact us page.


CONTACT

Contact Us



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 **Phone:**
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Full Name:

Phone:

Email:

Message:

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COMPARE CARS PAGE: This is compare cars page. Now you can compare cars before purchasing, to get you the best.

Compare two or more cars of your choice with the best car comparison tool in India on CARS4U. You can compare variant-wise prices, specifications, features, mileage, performance and more of as many as 2 cars at one go to help you make the right choice.


COMPARE CARS

Easy Way To Compare Cars


Some Popular Cars Camparsion




Renault Triber
₹5.30-7.82
Lakh*




Maruti Wagonr
₹4.80 - 6.33
Lakh*




Hyundai Creta
₹9.99-17.70
Lakh*




Kia Seltos
₹9.95-17.65
Lakh*




Kia Seltos
₹9.95-17.65
Lakh*




Kia Sonet
₹6.79 - 13.35
Lakh*




Maruti Baleno
₹5.98-9.30
Lakh*




Toyota Glanza
₹7.34-9.30
Lakh*




Maruti Baleno
₹5.98-9.30
Lakh*




Mercedes-Benz GLA
₹42.10-57.28
Lakh*




Maruti Swift
₹5.73-8.41
Lakh*




Tata Tiago
₹4.99-6.95
Lakh*




Nissan Magnite
₹5.59-10.00
Lakh*



Renault Kiger
₹5.64-10.08
Lakh*



Renault Triber
₹5.30-7.82
Lakh*



Hyundai Grand i10 Nios
₹5.23-8.45
Lakh*

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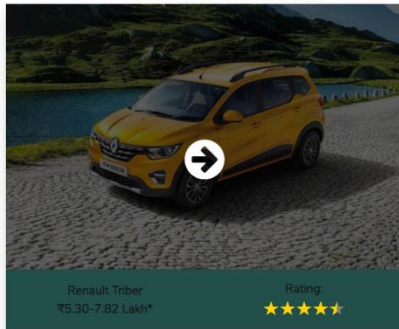
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Welcome to CARS4U

Renault Triber
₹5.30-7.82 Lakh*Rating:
★★★★★

Vs

Maruti Wagonr
₹4.80 - 6.33 Lakh*Rating:
★★★★★

Renault Triber Vs Maruti Wagonr

Should you buy Renault Triber or Maruti Wagon R? Find out which car is best for you - compare the two models on the basis of their Price, Size, Space, Boot Space, Service cost, Mileage, Features, Colours and other specs. Renault Triber price starts at Rs 5.30 Lakh ex-showroom for RXE (Petrol) and Maruti Wagon R price starts Rs 4.80 Lakh ex-showroom for LXI (Petrol). Triber has 999 cc (Petrol top model) engine, while Wagon R has 1197 cc (Petrol top model) engine. As far as mileage is concerned, the Triber has a mileage of 20.0 kmpl (Petrol top model) and the Wagon R has a mileage of 32.52 km/kg (Petrol top model).

Basic Information

RXZ EASY-R AMT Dual Tone

ZXI AMT 1.2

On Road Price	₹8,71,686*	₹6,97,839
Offers & Discount	1 Offer View now	1 Offer Check Now
Finance Available (EMI)	₹16,595	₹13,729
Insurance	₹34,946 Triber Insurance	₹31,325 Wagon R Insurance
Service Cost (Avg. of 5 years)	₹2,034	₹3,165

Engine and Transmission

Engine Type	1.0L Petrol Engine	K12M Petrol Engine
Displacement (cc)	999	1197
Max Power (bhp@rpm)	71bhp@6250rpm	81.80bhp@6000rpm
Max Torque (nm@rpm)	96Nm@3500rpm	113Nm@4200rpm

Fuel & Performance

Fuel Type	Petrol	Petrol
Mileage (City)	×	×
Mileage (ARAI)	18.2 kmpl	20.52 kmpl
Fuel Tank Capacity	40.0 (Litres)	32.0 (Litres)

Suspension, Steering & Brakes

Front Suspension	McPherson Strut with Lower Triangle & Coil Spring	MacPherson Strut with Coil Spring
Rear Suspension	Torsion Beam Axle	Torsion Beam With Coil Spring
Steering Type	Electric	Power

Steering Column

Tilt

Tilt

Dimensions & Capacity

Length (mm)	3990	3655
Width (mm)	1739	1620
Height (mm)	1643	1675
Ground Clearance Unladen (mm)	182	-

Comfort & Convenience

Power Steering	✓	✓
Power Windows Front	✓	✓
Power Windows Rear	✓	✓
Power Boot	✓	-

Interior

Tachometer	✓	✓
Electronic Multi Tripmeter	✓	✓
Leather Seats	✗	✗

Exterior

Available Colors	✓	✓
Body Type	MUV All MUV Cars	Hatchback All Hatchback Cars
Adjustable Headlights	✗	✗

Safety

Anti Lock Braking System	✓	✓
Brake Assist	✗	✗
Central Locking	✓	✓
Power Door Locks	✓	✓

Entertainment & Communication

Cd Player	✗	✗
Cd Changer	✗	✗
Dvd Player	✗	✗
Radio	✓	✓

Warranty

Introduction Date	✗	✗
Warranty Time	✗	✗
Warranty Distance	✗	✗

Pros and Cons

Pros Cons

Renault Triber

- Practicality: Apart from modular seating, features like a cooled central glovebox, separate air vents for second row as well as third row, and loads of cubby holes make it a practical car.
- Boot space: A capacity of 625 litres with five seats can put even compact sedans to shame.
- Modular seating: Triber can be turned into a two-seater, four seater, five-seater, six-seater or even a seven-seater vehicle. Its middle row can also slide forward and backwards.
- Looks: While looks are subjective, Renault should be given credit for designing a sub-4m MPV that doesn't look awkward from any angle.
- Available with an AMT automatic as well.
- Soon to be launched with a turbocharged petrol engine.

Maruti Wagon R

- Easy ingress and egress: Entering into and exiting from the WagonR is easy as you don't have to bend much.
- Spacious cabin: The increase in exterior dimensions and wheelbase has resulted in more space inside the cabin.
- Cavernous boot: 341-litre boot space is maximum in its segment. In fact, it's comparable or even bigger than cars from a segment above. Can fit 3-4 medium size bags easily. The rear seat is also 60:40 split, adding more versatility.
- AMT with both engines: The option of AMT ups the convenience quotient in an already easy to drive car. Available in V and Z variants, and with both the engines.
- Safer: ABS standard, dual front airbags available as option on all variants. The new platform is also stronger than the one before.

Go Back

<https://cars-06.herokuapp.com/compare#cons>

ABOUT PAGE: This is about us page.

ABOUT

Learn More About Us

This website is developed only as a part of my project work in which i had tried to implement maximum features to enhance the user interaction. I have developed this website with a goal of implementing & showcasing my skills in an innovative way.

This website is not published for any business purpose, it is just a demo project.

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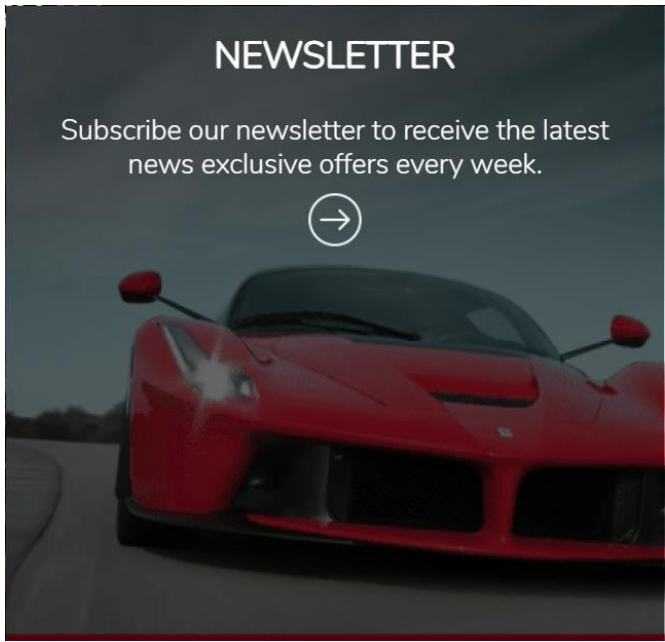
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LOGIN: This is Login Modal.

NEWSLETTER

Subscribe our newsletter to receive the latest news exclusive offers every week.



→

CARS4U

Welcome to CARS4U

Email:

Password:

[Forget Password?](#)

Sign in

Don't have account? [Sign up](#)

Why Us

- Full vehicle detail pages with photos and videos that explain features and specs
- Accurate pricing information
- Comparison guides that explain the differences between similar models
- Trade-in values and information so consumers can get an idea of their budget

NEWSLETTER

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Password:

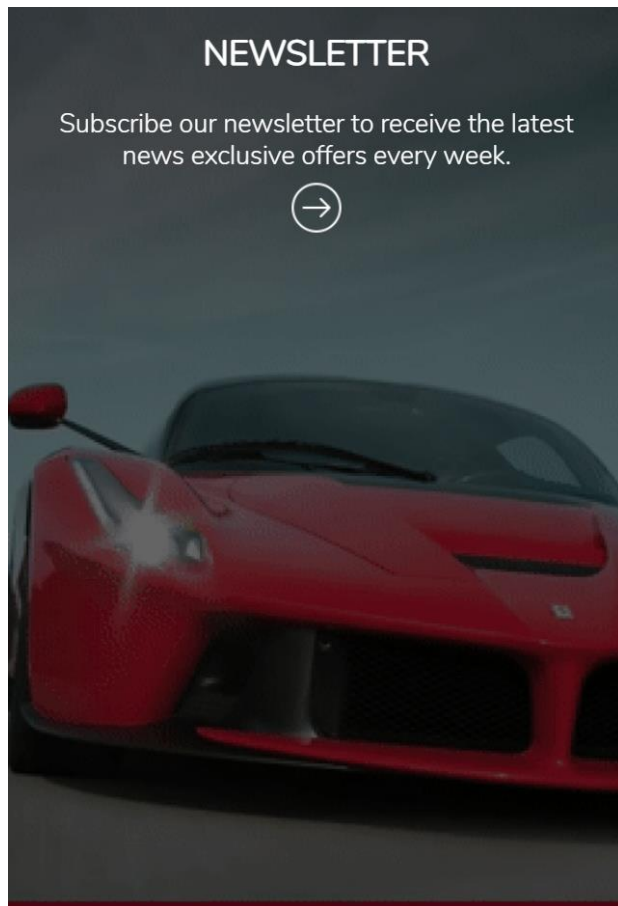
[Forget Password?](#)

Sign in

Don't have account? [Sign up](#)

- For a successful login, the user must have already signed up. Otherwise, visitor have to sign-up first in order to login.
- If any credentials are invalid, a pop-up will appear saying “Invalid Credentials”.
- If any field is left empty, a pop-up will appear saying “Invalid Credentials”.

SIGN-UP: This is Sign-Up Modal.



CARS4U

×

Welcome to CARS4U

Firstname:

First Name

Lastname:

Last Name

Email:

Enter Email

Phone No:

Enter Phone No.

Password:

Enter Password

Confirm Password:

Re-enter Password

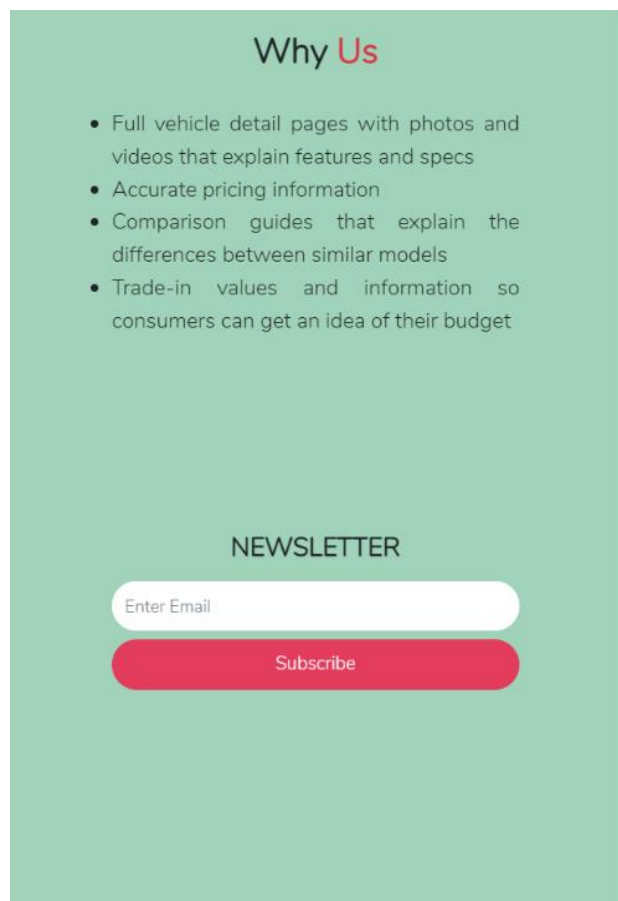
Sign Up

OR



Sign in with Google

Already have account? [Sign in](#)



CARS4U

×

Welcome to CARS4U

Firstname:

First Name

Lastname:

Last Name

Email:

Enter Email

Phone No:

Enter Phone No.

Password:

Enter Password

Confirm Password:

Re-enter Password

Sign Up

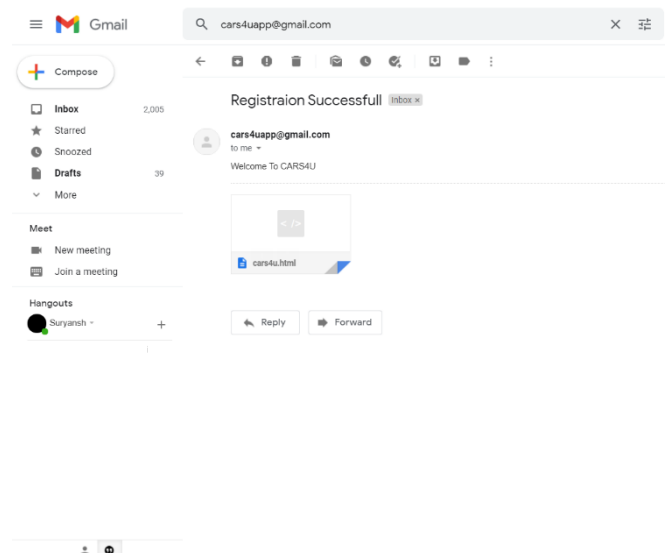
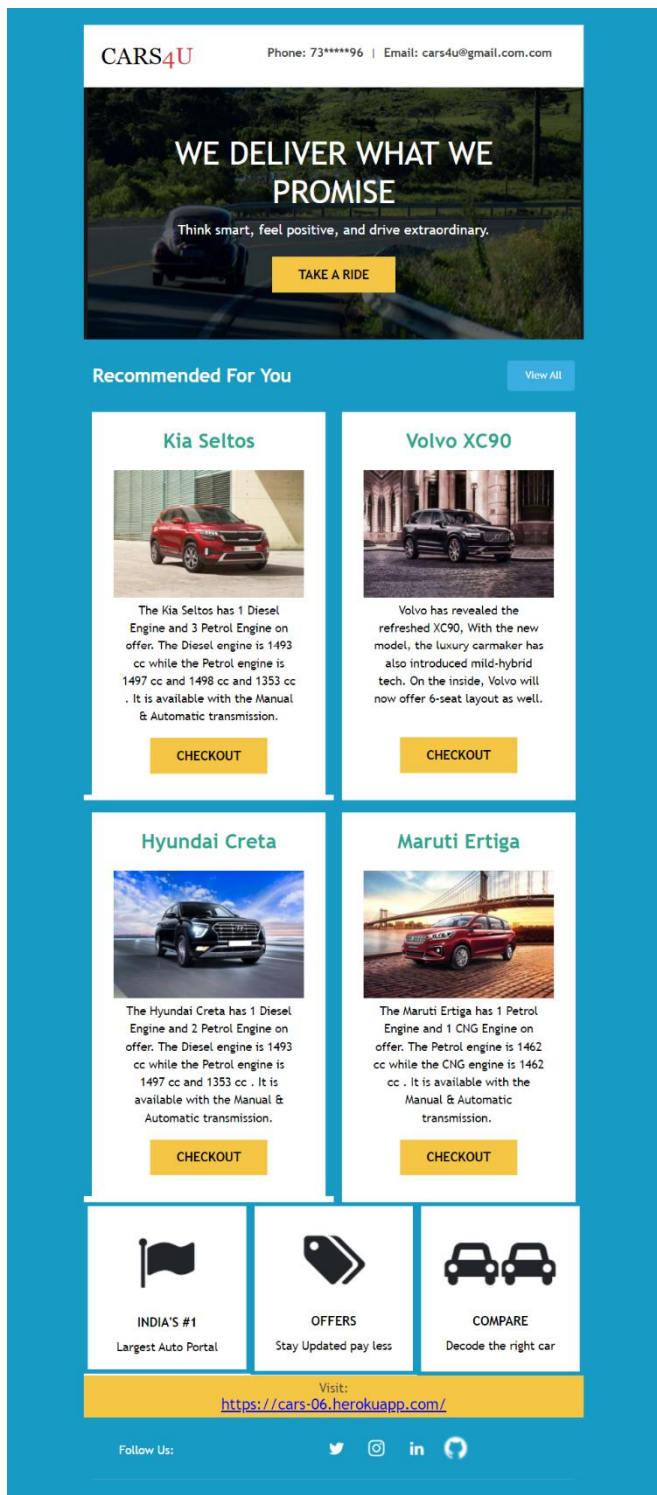
OR



Sign in with Google

Already have account? [Sign in](#)

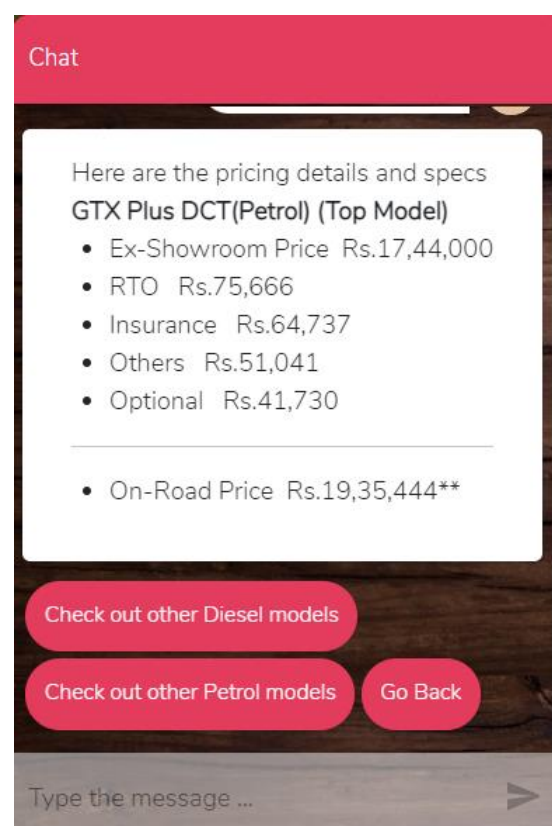
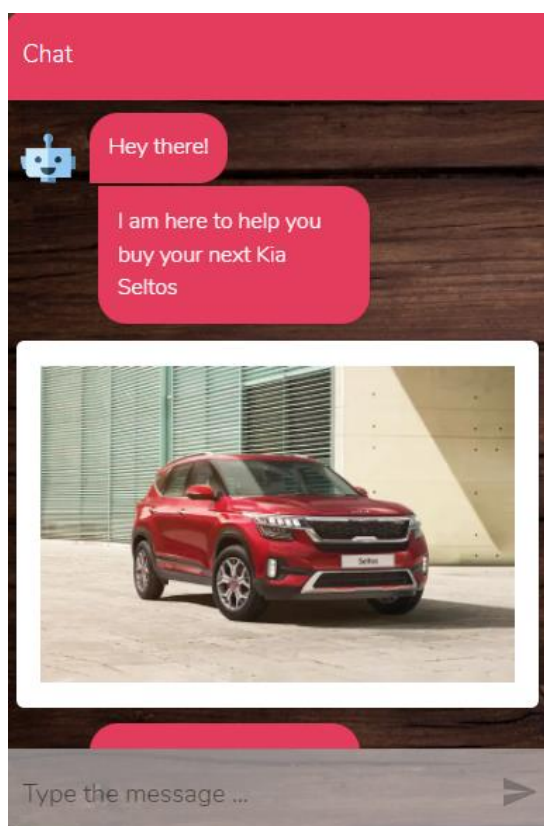
- All field are mandatory and if visitor enters any invalid credentials a pop-up will appear saying “Invalid Credentials”.
- If visitor leaves any field empty, a pop-up will appear saying “All fields are mandatory”.
- If the Visitor is already registered, a pop-up will appear saying “User already exists”.
- After successful sign-Up, an email will also be sent automatically to the respective email used for signing Up.



CHATBOT: We have also incorporated a chatbot for any guidance or any query visitor wants to clear.

What is a Chat-bot?

At the most basic level, a chatbot is a computer program that simulates and processes human conversation (either written or spoken), allowing humans to interact with digital devices as if they were communicating with a real person. Chatbots can be as simple as rudimentary programs that answer a simple query with a single-line response, or as sophisticated as digital assistants that learn and evolve to deliver increasing levels of personalization as they gather and process information.



CAR DETAILS: Here are some car specifications. Visitors can check the 360-degree interior as well as exterior view.

CARS4U

×

Welcome to CARS4U



Kia Seltos

₹9.95 - 17.65 Lakh*

★★★★★ 4.5/5

[Rate This Car](#)

[View Latest Offer](#)

Exterior



Interior



Kia Seltos Specs, Features and Price

The Kia Seltos has 1 Diesel Engine and 3 Petrol Engine on offer. The Diesel engine is 1493 cc while the Petrol engine is 1497 cc and 1498 cc and 1353 cc. It is available with the Manual & Automatic transmission. Depending upon the variant and fuel type the Seltos has a mileage of 16.1 to 20.8 kmpl. The Seltos is a 5 seater and has length of 4315mm, width of 1800mm and a wheelbase of 2610mm.

Latest Update: Kia has launched the updated Seltos.

Kia Seltos Price: The 2021 Seltos is priced between Rs 9.95 lakh and Rs 17.85 lakh (ex-showroom).

Kia Seltos Variants: It is offered in two trims: Tech (HT) Line and GT Line. While the former has five variants (HTE, HTK, HTK+, HTX, and HTX+), the latter has only two (GTX(O) and GTX+).

Kia Seltos Seating Capacity: The Seltos can seat up to five people.

Kia Seltos Powertrains: It comes with three engine options: 1.5-litre petrol (115PS/144Nm), 1.4-litre turbocharged petrol (140PS/242Nm), and 1.5-litre diesel (115PS/250Nm). A 6-speed manual gearbox is offered as standard with all three engines. It also gets optional automatic transmissions: a 7-speed DCT (1.4-litre turbo-petrol), a CVT (1.5-litre petrol), and a 6-speed torque converter unit (1.5-litre diesel). The 1.5-litre petrol engine also gets a 6-speed iMT (clutchless manual) gearbox.

Kia claims a fuel efficiency of 16.5kmpl for the petrol-manual and 16.8kmpl for the petrol-CVT variants. The diesel-manual's claimed fuel efficiency figure stands at 21kmpl, while the 6-speed AT's stands at 18kmpl. The 1.4-litre turbo-petrol, paired with the DCT, offers a claimed mileage of 16.5kmpl, while the manual returns 16.1kmpl.

Kia Seltos Features: The Seltos packs a 10.25-inch touchscreen infotainment system along with Kia's UVO connected car technology, an air purifier, ambient lighting, and an 8-inch head-up display. It also gets ventilated front seats, a power-adjustable driver's seat, a 7-inch multi-information display, an 8-speaker Bose sound system, and a sunroof. It comes with smartwatch connectivity, smart-key remote engine start, and a 'Hello Kia' wake up command as well.

Kia Seltos Safety: It gets up to six airbags, ABS with EBD, brake assist, emergency stop signal, vehicle stability management (VSM), electronic stability control (ESC), and hill assist control (HAC).

Key Specs of Kia Seltos



Engine
1353cc-
1498cc



BHP
113.4-138.08
Bhp



Seating
Capacity
5



Top Features

✓ Power Windows Front

✓ Air Conditioner

✓ Power Steering

✓ Anti Lock Braking System

[+6 more](#)

Colors



Key Specification of Kia Seltos

ARAI Mileage	17.8 kmpl
Engine Displacement (cc)	1493
Max Torque (nm@rpm)	250nm@1500-2750rpm
TransmissionType	Automatic
Fuel Tank Capacity	50.0
Service Cost (Avg. of 5 years)	₹4,628

Fuel Type	Diesel
Max Power (bhp@rpm)	113.4bhp@4000rpm
Seating Capacity	5
Boot Space (Litres)	433
Body Type	SUV

Key Features of Kia Seltos

Power Steering	✓
Anti Lock Braking System	✓
Driver Airbag	✓
Fog Lights - Front	✓
Automatic Climate Control	✓

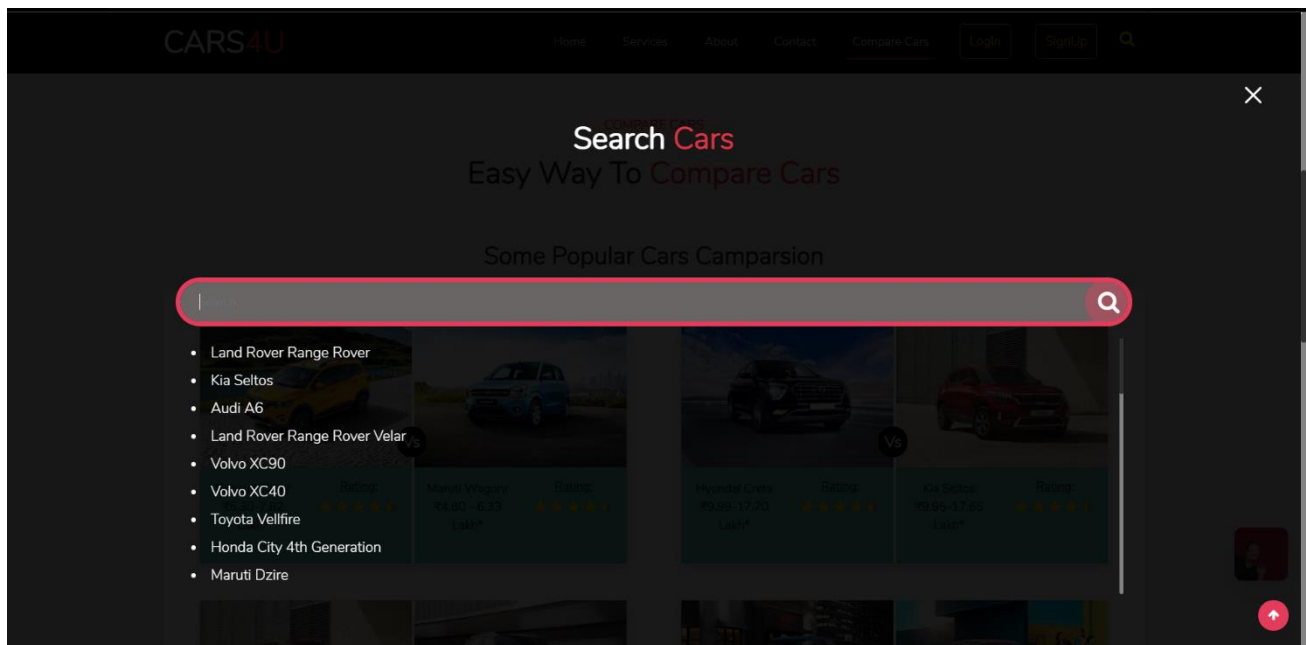
Power Windows Front	✓
Air Conditioner	✓
Passenger Airbag	✓
Alloy Wheels	✓

Rate This Car

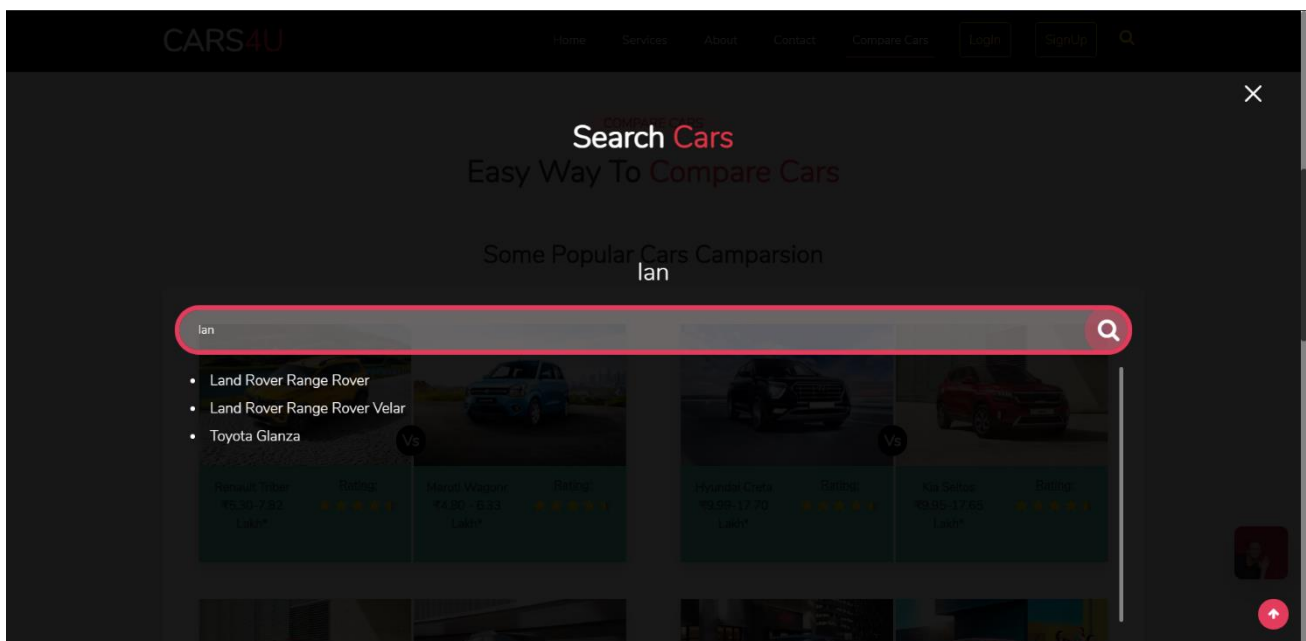


Go Back

SEARCH: Using the search bar, you can look for your favourite car without any hassle.



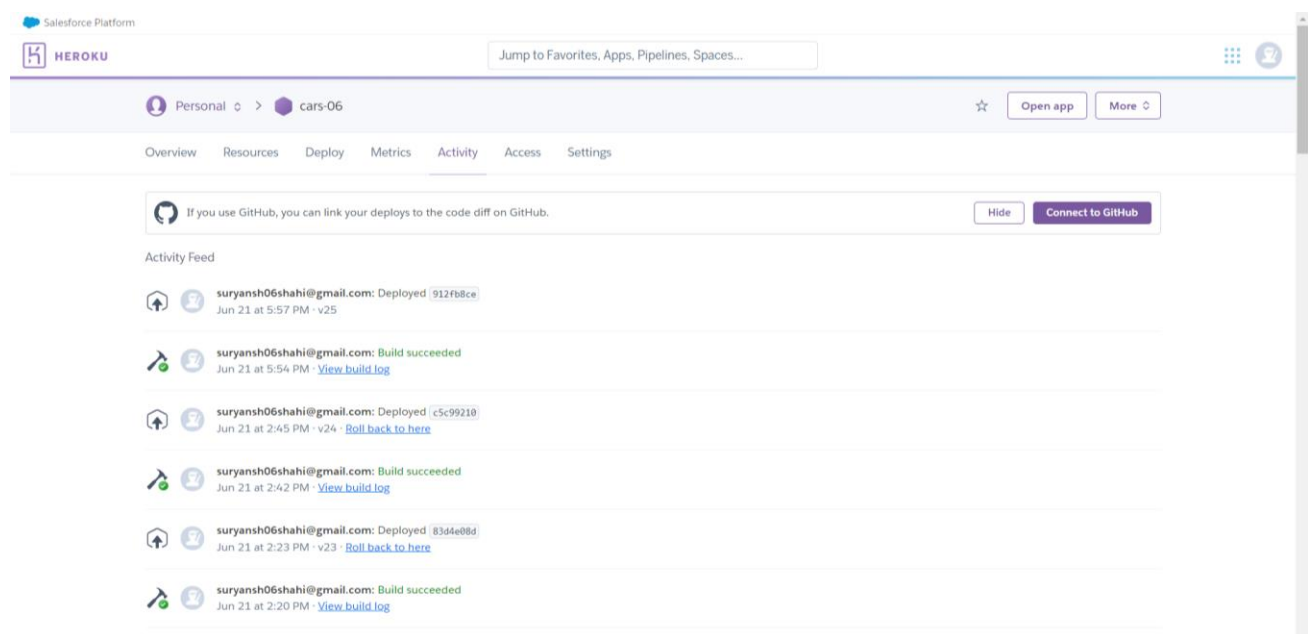
The search results will be sorted alphabetically.



DEPLOYMENT: We have deployed our project on Heroku which can be accessed on <https://cars-06.herokuapp.com>

What is Heroku?

Heroku is a cloud [platform as a service](#) (PaaS) supporting several [programming languages](#). One of the first [cloud platforms](#), Heroku has been in development since June 2007, when it supported only the [Ruby](#) programming language, but now supports [Java](#), [Node.js](#), [Scala](#), [Clojure](#), [Python](#), [PHP](#), and [Go](#).^[1] For this reason, Heroku is said to be a [polyglot platform](#) as it has features for a [developer](#) to build, run and scale applications in a similar manner across most languages.



CONCLUSION

We tried to present CARS24 as a next generation car search venture helping users to buy cars that are right for them.

The goal of this project is to bring delight in car buying, we offer a bouquet of reliable tools and services to help car consumers decide on buying the right car, at the right price.

The platform provides readers with multi-dimensional insights in the search venture. The platform publishes content such as expert reviews, detailed specs and prices, comparisons as well as videos and pictures of all car brands and models available in India. We have also incorporated a chatbot for any guidance or any query visitor wants to clear.

Websites like <https://www.cars24.com> , <https://www.cardekho.com> were very helpful for the completion of this project.