

# Wireframe Flight Fare Prediction

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MUDIT ARORA

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## Document Version Control

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## **Abstract**

The Aviation sector faced significant challenges due to the recent changes in the international market. These changes affected both the Business and Customer perspectives of the industry. One of the main reasons for this was the different regulations imposed by governments around the world on their Airline companies. As a result, the flight ticket prices varied widely across different locations. There were also two modes of booking a flight ticket: online and offline. Each mode had its own factors that influenced the price, such as the server load and the number of booking requests. In this machine learning implementation, we will explore various factors that affect the flight ticket price and predict the optimal price for the ticket.

# 1. Web Interface

## 1.1 Landing Page

When the User land on our webpage, they sees a webpage welcoming them to Flight Fare Prediction System

FLIGHT PRICE

Departure Date  
mm/dd/yyyy --:-- --

Arrival Date  
mm/dd/yyyy --:-- --

Source  
Delhi

Destination  
Cochin

Stopage  
Non-Stop

Which Airline you want to travel?  
Jet Airways

Type here to search

Breaking news

12:47 PM  
4/26/2023

## 1.2 Predictor Page

The user sees various fields asking for information that is required to predict the price of a flight. Every user input has its own dropdown where the user can select their input. After providing the required input and pressing the submit button, the page refreshes and displays the predicted price of the flight.

The screenshot shows a web application titled "FLIGHT PRICE" in a dark header. The main content area has a light blue background and contains six input fields arranged in a 3x2 grid. Each field is a white box with a title and a dropdown menu. The fields are: "Departure Date" with a date format "mm/dd/yyyy --:-- --" and a calendar icon; "Arrival Date" with a date format "mm/dd/yyyy --:-- --" and a calendar icon; "Source" with a dropdown showing "Delhi"; "Destination" with a dropdown showing "Cochin"; "Stopage" with a dropdown showing "Non-Stop"; and "Which Airline you want to travel?" with a dropdown showing "Jet Airways". At the bottom of the browser window, the Windows taskbar is visible, showing the search bar, taskbar icons, and system tray with the date "4/26/2023" and time "12:47 PM".

Field	Value
Departure Date	mm/dd/yyyy --:-- --
Arrival Date	mm/dd/yyyy --:-- --
Source	Delhi
Destination	Cochin
Stopage	Non-Stop
Which Airline you want to travel?	Jet Airways

## 2. User Input

On the predictor page, the user has to provide all the information asked for the prediction. The user can select from the drop down lists attached to each of the input fields. Once all the asked information is provided, the user clicks on submit button to get the output.

FLIGHT PRICE

Departure Date

mm/dd/yyyy --:-- --

Arrival Date

mm/dd/yyyy --:-- --

Source

Delhi

Destination

Cochin

Stopage

Non-Stop

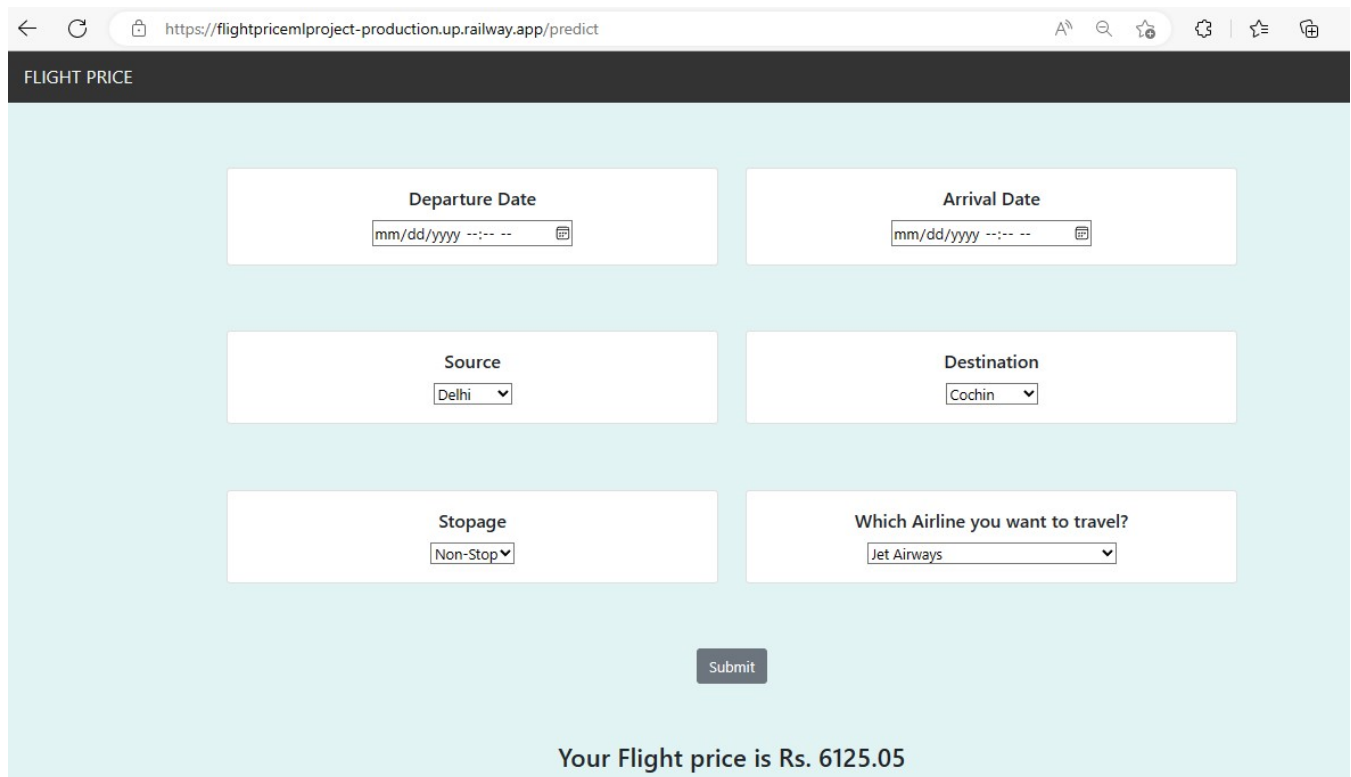
Which Airline you want to travel?

Jet Airways

Submit

### 3. Results Page

On the predictor page, the user provides all the asked information and then clicks on submit button. The predicted fare of the selected flight is displayed to the user.



The screenshot shows a web browser window with the URL <https://flightpricemlproject-production.up.railway.app/predict>. The page has a dark header with the text "FLIGHT PRICE". The main content area is light blue and contains six input fields arranged in a 3x2 grid. The first row contains "Departure Date" and "Arrival Date" fields, both with date pickers showing "mm/dd/yyyy --:-- --". The second row contains "Source" and "Destination" dropdown menus, with "Delhi" and "Cochin" selected respectively. The third row contains "Stopage" and "Which Airline you want to travel?" dropdown menus, with "Non-Stop" and "Jet Airways" selected respectively. Below these fields is a "Submit" button. At the bottom of the page, the text "Your Flight price is Rs. 6125.05" is displayed.

Field	Value
Departure Date	mm/dd/yyyy --:-- --
Arrival Date	mm/dd/yyyy --:-- --
Source	Delhi
Destination	Cochin
Stopage	Non-Stop
Which Airline you want to travel?	Jet Airways

Submit

Your Flight price is Rs. 6125.05