

About Us

Project Description

Dashboard

Findings





Nur Natasha Aishah Binti Mohd Arrifin 2019252386 PROJECT LEADER



Aizat Bin Mohd Yunus 2019218746 DATA SCIENTIST



Fatin Anis Natasya Binti Mohd Sabri 2019218956 DATA ANALYST



Muhammad Irfan Syafi Bin Zaharuddin 2019892312 DATA ENGINEER

About Us

Project Description

Dashboard

Findings



Description

- Travelling is simply defined as heading from one destination to another.
 Getting to places can be quite tough to some, hence why the human
 population has deemed this as a problem. Even so, modern problems can
 be overcome with the help of modern solutions. There are multiple ways to
 travel. For instance, by land, by air and by water. Thanks to modern
 engine technology, we can now move through space at an inhuman speed
 (J. Lehrer, 2010).
- Air transportation is the only transportation network that makes it vital for tourism and global commerce (Air Transport Action Group, 2005).
 Malaysia itself has several companies that serve in this sector, and they all share the same purpose to their clients. For instance, there are AirAsia, Malaysia Airlines, Firefly and more.
- AirAsia is a company that offers air transport services for their customers.
 AirAsia reported that the airline has flown 217 million passengers since the
 beginning of its service and connected 10 ASEAN countries (AirAsia, 2014).
 This can be a solid proof of how AirAsia is one the go-to choices for
 people who want to travel by air.
- The service innovations in the airline industry particularly in the form of low-cost carriers advancing new service business models propelled airlines to touch base on several key services marketing soft concepts such as customer satisfaction, service quality and branding apart from measurable marketing metrics such as growth, revenue, and profits (Chapman, 2005). It is crucial for airlines companies to keep track of their growth in data regarding their customers and this can be a big influence as a marketing strategy.

Problem Statement

- COVID-19 made an impact on the aviation industry.
 The tourism industry as a whole has been seriously
 impacted by the pandemic, with estimates ranging
 from 850 million to 1.1 billion foreign tourists lost
 and S910 billion to S1.2 trillion in tourism export
 profits lost. (Airlines IATA, 2021)
- The aviation industry has a hard time on making marketing strategy since people will book flight tickets on different time depending on price, festivals, and urgencies.

Dataset

- · AirAsia bookings data
- The dataset is obtained from Kaggle.com
- Dataset focused on flight booking data of AirAsia only
- Dataset has 50,000 instances and 15 attributes
- Dataset is from 2020



About Us

Project Description

Dashboard

Findings

BOOKINGS MADE

50000

INSURANCE

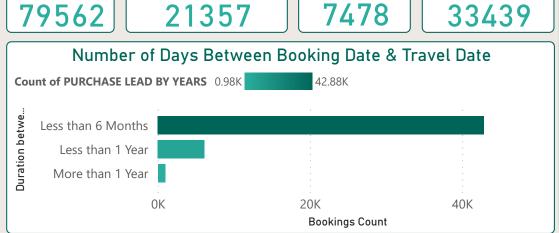
PURCHASED

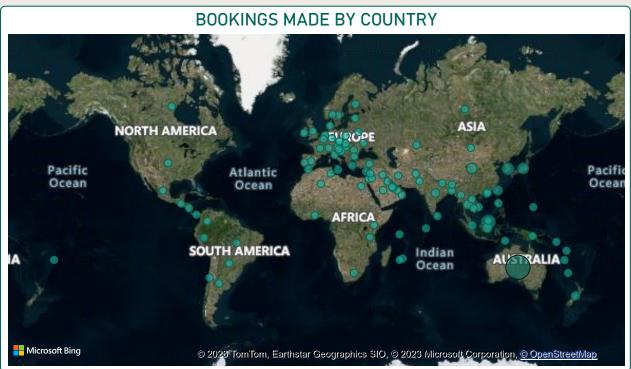
TICKET **PURCHASED** 79562 FOOD & BEVERAGES **PURCHASED**

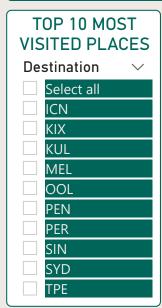
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EXTRA BAGGAGE PURCHASED

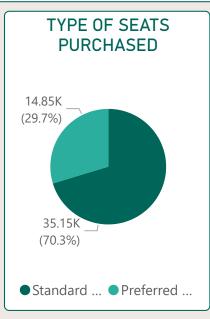
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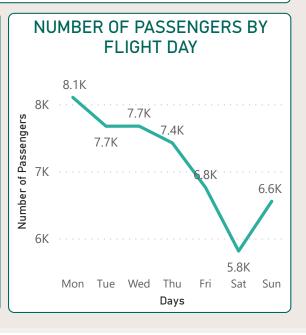














About Us

Project Description

Dashboard

Findings



Analysis & Findings

Number of Days Between Booking Date & Travel Date

Bookings Made By Country

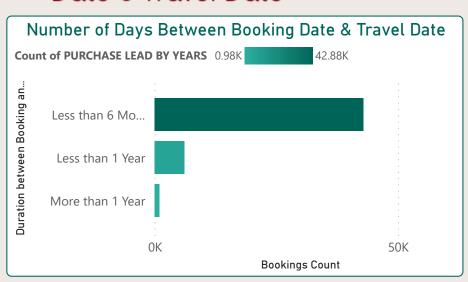
Top 10 Most Visited Places

Type of Seats
Purchased

Number of Passengers By Flight Day

Number of Days Between Booking Date & Travel Date





The graph above is a horizontal bar chart that is used to compare different categories. It shows the comparison of bookings count and duration between booking date and travel date for each category. The blue bar chart represents the duration that is less than six months while the maroon bar chart is represents less than one year duration. The red bar is the more than one year duration. Based on the graph, the bookings count for duration that is less than six months is the highest with total of 42,881 bookings. The count for duration less than one year is 6,139 which is lower than the count for duration of less than six months. Lastly, there is a significant different in bookings count between less than six months duration and more than one year duration. The count of bookings for more than one year is only 980. This can conclude that, people more prefer to book ticket in duration that less than six months from the travel date.



About Us

Project Description

Dashboard

Findings



Analysis & Findings

Number of Days Between Booking Date & Travel Date

> Bookings Made By Country

Top 10 Most Visited
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Bookings Made By Country





The world map above shows bookings made by respective countries. The size of the circle on the map represents the number of booking tickets made by each country. The larger the size of the circle, the larger the number of booking tickets made by the location. The total number of countries that make bookings with AirAsia are 104. Overall, a sum of 50,000 tickets were successfully booked. The top 10 countries that use the service of AirAsia are Australia, Malaysia, South Korea, Japan, China, Indonesia, Taiwan, India and New Zealand. Australia is the country with the highest bookings made, followed by Malaysia. The summation number of bookings made by them are 17,872 and 7,174 respectively. The lowest booking made are by countries of the continents of Africa and Middle East. This shows how people from Asia prefer to use AirAsia as their mode of air transportation to travel. Meanwhile, the countries of Europe and Middle East do not prefer to use AirAsia for flight bookings. A factor that might contribute to this might be because they do not recognize AirAsia.



About Us

Project Description

Dashboard

Findings



Analysis & Findings

Number of Days Between Booking Date & Travel Date

> Bookings Made By Country

Top 10 Most Visited
Places

Type of Seats
Purchased

Number of Passengers By Flight Day

Top 10 Most Visited Places



Home



The chart is being visualized using a tree map chart. Based on the tree map hierarchy diagram, Sydney is the most visited place by tourists around the world that use AirAsia flight services. Based on the graph, the top ten of most visited country is Australia, Taiwan, Malaysia and Singapore. The highest booking data on visited place is Sydney with total of 6,616 bookings. In order to understand the graph better and clearly see the differences between the data, gradient colour Is being used from dark (highest) to light(lowest) for the top 10 visited places. The top 3 most visited places is from Australia which 6,616 bookings to Sydney, 4,992 bookings to Perth and 4,444 bookings to Melbourne. From this, we can create a hypothesis that promoting Australia would be a great marketing opportunity for economic recovery. Another most visited places is Taiwan which is Taoyuan with 4,044 bookings. Followed by Gold Coast Airport landing destination in Australia with 2,796 bookings. Malaysia's favourite landing destinations are Kuala Lumpur Airport with 2,688 bookings and Penang Airport with 2,483 bookings. Followed by Kansai, Japan with 2,240 bookings, Incheon, South Korea with 2,157 bookings and Singapore with 2,157 bookings.



Data Analyst

Home

About Us

Project Description

Dashboard

Findings



Analysis & Findings

Number of Days Between Booking Date & Travel Date

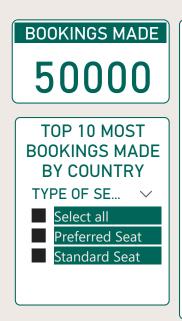
> Bookings Made By Country

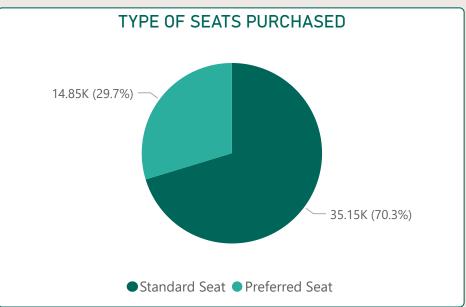
Top 10 Most Visited Places

> Type of Seats Purchased

Number of Passengers By Flight Day

Type of Seats Purchased





The pie chart above shows the type of seats purchased per person on AirAsia flight services. There are two types of seats which are standard seats and preferred seats. The graph clearly shows that the percentage for standard seat purchased is 70.3% of the data which is higher than the number of preferred seats purchased by the customers. The number of standard seats purchased is 35,152 while the preferred seat type is being purchased around 14,848 with percentage of 29.7%. In conclusion, people prefer standard seats more as they are cheaper than the other type.



About Us

Project Description

Dashboard

Findings



Analysis & Findings

Number of Days Between Booking Date & Travel Date

Bookings Made By Country

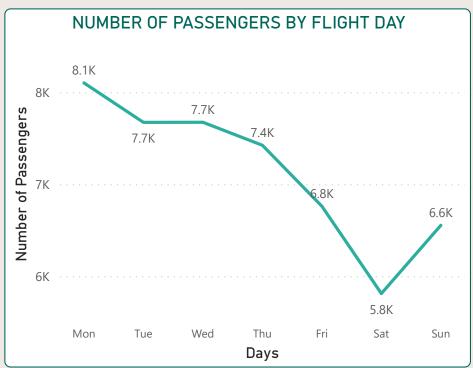
Top 10 Most Visited Places

> Type of Seats Purchased

Number of Passengers By Flight Day

Number of Passengers By Flight Day





The line chart above shows the number of flight's passengers per day. The line chart is used to show the change of trend over time and it is suitable in analyzing continuous data. Based on the graph, the number of passengers decrease slightly from Monday to Tuesday then increase by one on Wednesday. From Wednesday to Saturday, the number of passengers drop from 7,674 to 5,812 then increase to 6,554 on Sunday. The highest number of passengers is on Monday with total of 8,102 passenger. The lowest number of passengers is on Saturday with total number of 5,812 passenger. Overall, the total numbers of passenger on weekdays is higher than the total number of passengers on weekend.