

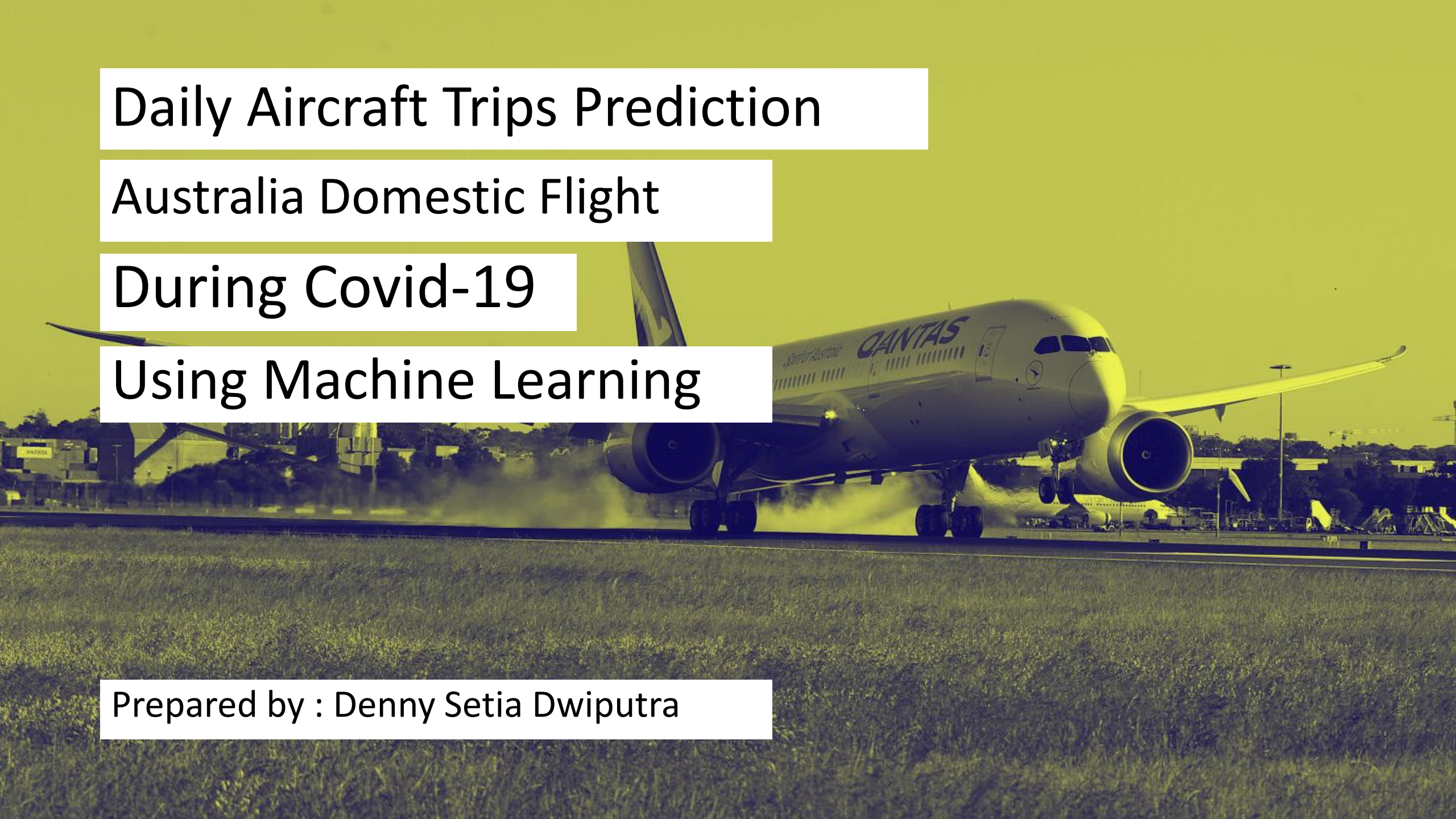
Daily Aircraft Trips Prediction

Australia Domestic Flight

During Covid-19

Using Machine Learning

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Background of The Project

Because of this **anomaly year**, The Airline Company couldn't use the historical data to predict their passengers to calculate their revenue, their fare, and how to calculate the **ticket price** from this obscurity. So they have to think more than before, but we still could predict by we take the flight traffic data as much as possible in this year.

But the problem is , We couldn't **predict** the traffic in future, we still in the **anomaly year**, many country make their own policy to keep their citizens safe, just like in **Australia**, several region make **territorial quarentine** to avoid the spread of the virus, so I think its **useless** to predict the demand of the passenger in the future and nearly the end of this year, We are still waiting for uncertainly about the safety and healty from this virus.



Airline Industry in 2020

The worst year of the airline Industry, Covid-19 gave massive impact to every Airline Industry, They have to survive with this condition untill we find the best solution and recover as soon as possible, especially we are trying to finding and waiting for testing of the vaccine from this virus.

Several Airlines Industry have to commit that they cant survive, ask for bankruptcy protection. They have to layoff their employees because of financial problem. Several Airlines cant continue their bussines, they declared bankruptcy.

Airline Industry in 2020

Tribuntravel.com

Minggu, 22 November 2020

Q Cari

Potret Kabin Pesawat Penumpang yang Diubah Jadi Pesawat Kargo, Kursi Penumpang Dihilangkan

Selasa, 5 Mei 2020 10:09



lihat foto



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Thai Airways Files For Bankruptcy Protection, Won't Refund Any Tickets For At Least Six Months

by Sebastian Powell - May 29, 2020

8 Comments

It finally happened: **Thai Airways has filed for Bankruptcy Protection** in Bangkok's Central Bankruptcy Court on Tuesday and the petition was accepted on Wednesday afternoon.



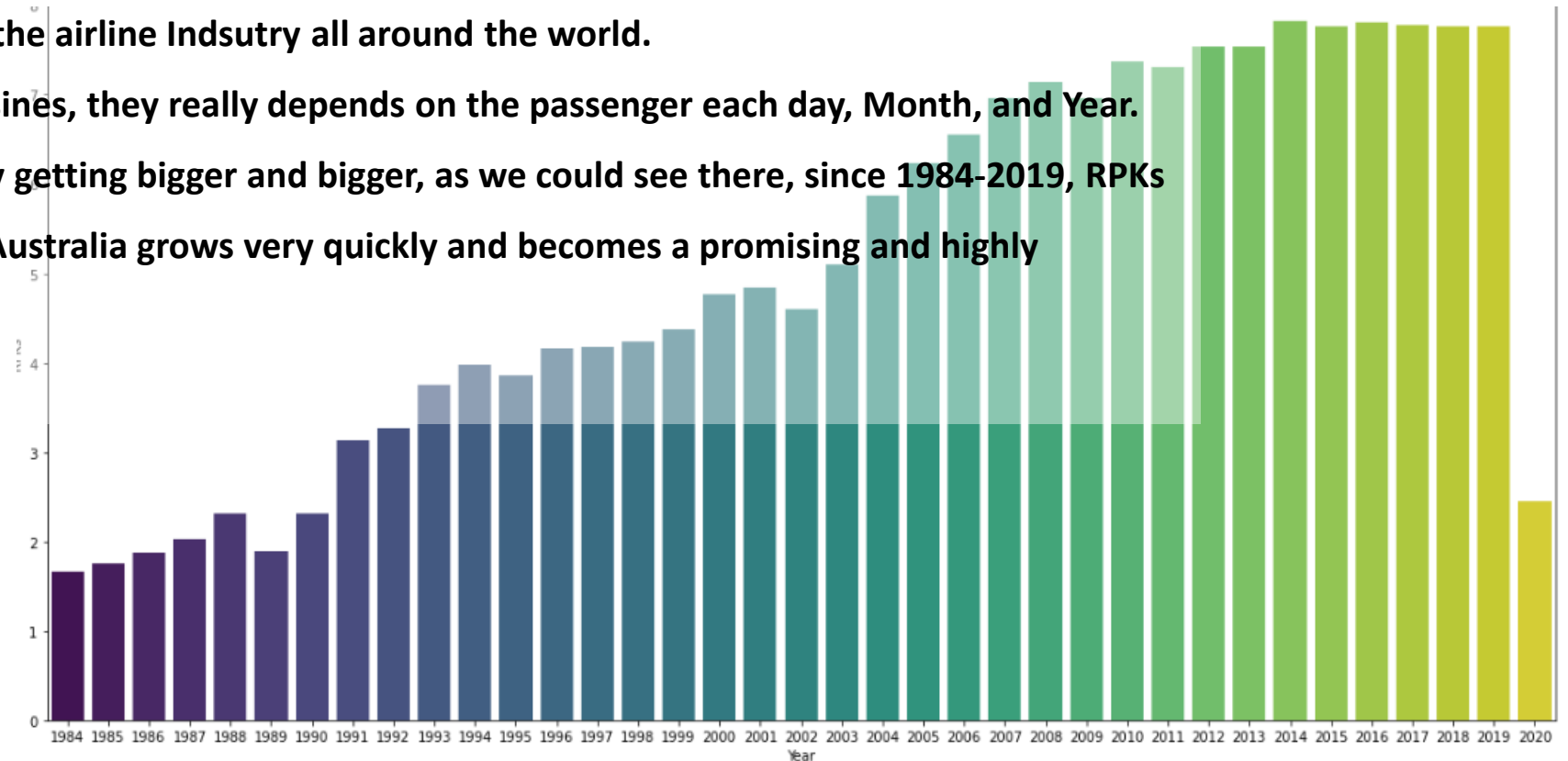
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Passenger Trends from 1984-2020

We could see that Corona Virus Disease 19 (Covid-19) in 2020 Obviously create a massive impact for RPKs this year and had beaten the airline Industry all around the world.

Airline Bussines is dinamic bussines, they really depends on the passenger each day, Month, and Year.

By the time ,the airline industry getting bigger and bigger, as we could see there, since 1984-2019, RPKs (Revenue Seats Kilometers) in Australia grows very quickly and becomes a promising and highly competitive bussiness.



Big Problem

Despite of this, the airline bussines was destroyed because of this pandemic, people should be stayed at home to stop the spread of the virus, many Country take an action to did a **Lockdown**, All the airport decided to close flight for the safety reason, in the end of **third month** 2020, this pandemic getting bigger and couldn't be prevented, , they have to change bussines concept and try to save thier money as much as possible

Several Airline decided to grounded their Aircraft and the other trying hard to survive in this hard situation by change their aircraft configuration from the **Passenger aircraft** to **cargo aircraft**, but it is not an easy way to change that ! They have to spend 2.5 to 3 million USD.

Goals

We would predict the possible aircraft trips as Efficient as Possible

In this project, We would like to predict on the next month, how many flight could be possible in a spesific route based on load factor the month before or the average load factor this year, with the limitation of available seat (On several Airline) because of the safety reason (Social Distancing) to reduce the spread of the virus and the most important think is to restore the customers trust to fly again over the region or maybe over the country.



Why we should predict aircraft trips?

They lost a lot of money, if they fly with empty passengers.

Emoh Terbang Tanpa Penumpang, 59 Maskapai Grounded Semua Pesawat

Dadan Kuswaraharja
detikTravel



In every flight , they have to spent a lot of money (Operational Cost) so this year, they have to save their money as much as possible by predicting the aircraft trips in a route.



A person wearing a white high-visibility vest over a dark long-sleeved shirt and a white cap is working on the side of a white aircraft. The person is holding a tablet or clipboard. The aircraft has the word "AUS" visible on its side. The background is a solid dark color.

Aircraft Trips

The number of flight stages. A return flight counts as two aircraft trips. (frequency of flights in a month)

Load Factor

The total revenue passenger kilometres performed as a percentage of the total available seat kilometres.