GILBERT CONSULTANTS

Contacts: gilbert.cheruiyot@student.moringaschool.com

PROJECT NEW FRONTIER

PRESENTATION

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

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GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

INTRODUCTION

This presentation will answer all the questions you have as you embark on your journey into **Project New Frontier** to diversify your business objectives, particularly entry into the aviation sector. Through detailed analysis history of aviation accidents and the accompanying risk factors, this document will highlight the best choices of aircraft you will pick from as you expand to into the Aviation industry.

In arriving at the aircraft to purchase its crucial to evaluate the safety performance in the aviation industry. This study has paid relied on the **Aviation Accident Database & Synopses, up to 2023**, link: https://www.kaggle.com/datasets/khsamaha/aviation-accident-database-synopses.

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

GREETINGS AND WELCOME TO THIS PRESENTATION

I’m Gilbert, and I'll be sharing with you actionable insights that will guide your head of the new Aviation Division on which aircraft to purchase.

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

THE AIRCRAFT PROJECT

AVIATION ACCIDENTS

Analysing the history of aviation accidents provides an opportunity to establish the aircraft with the lowest risk for the company to purchase.

WHAT SETS AIRCRAFTS APART

This research differentiated aircrafts using make, model, number of engines, engine type and the expertise of the builder.

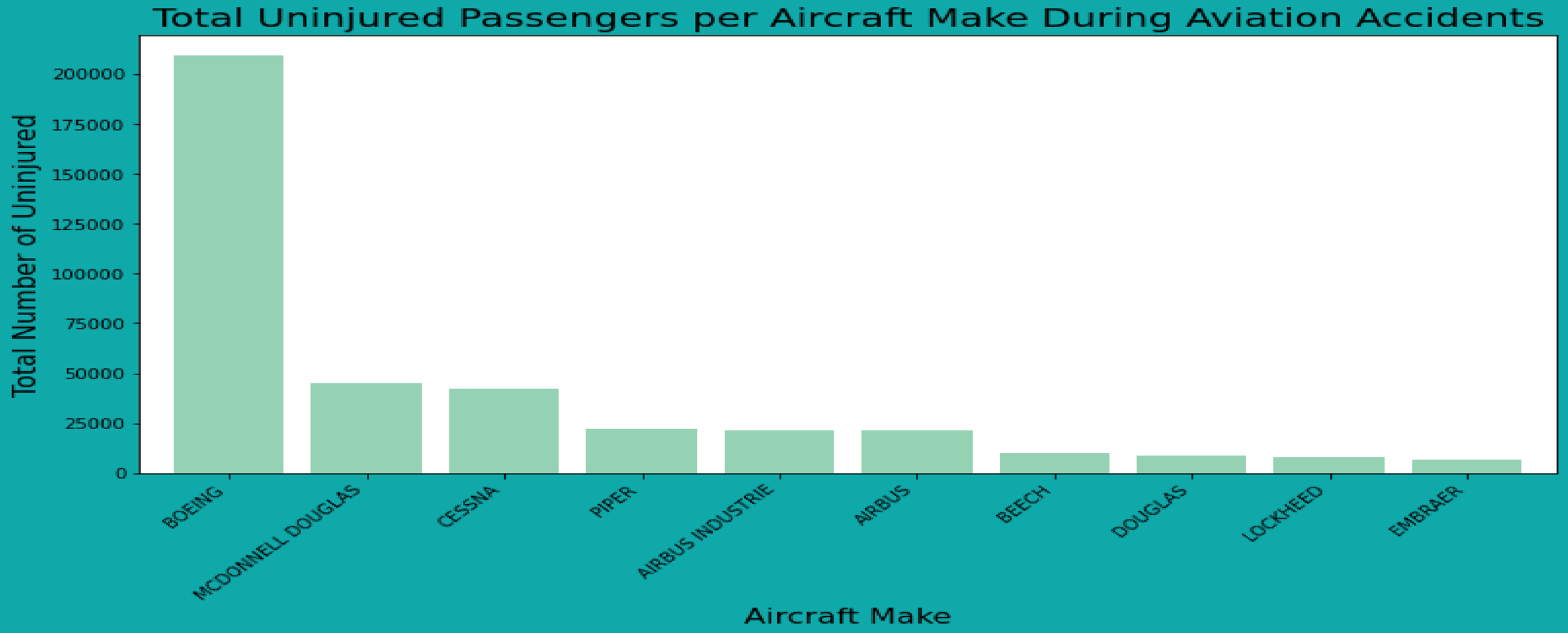

YOUR ANSWERS TO
GETTING IT RIGHT IN
AVIATION IS IN THIS
PRESENTATION

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Safety of aircraft based on make

Boeing had a considerable number of uninjured passengers during aviation accidents in the period under review at 209,195, with MCDonnel Douglas coming a distant second with 45,292 as uninjured during the accident incidents.

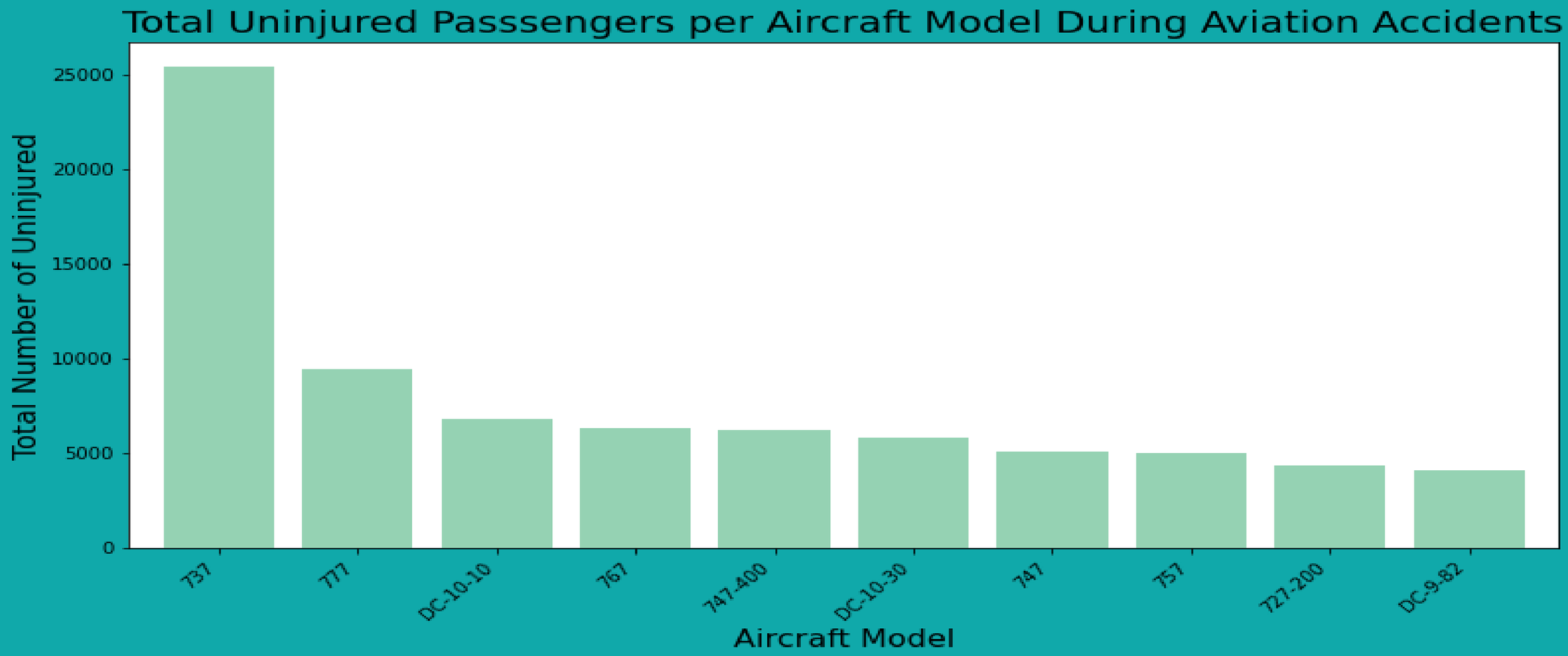


GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Safety of aircraft based on model

Model 737 had considerable number of uninjured passengers reported during aviation accidents in the period under review at 25,461 incidents while 777 and DC-10-10 reported 9,439 and 6,860 uninjured cases.

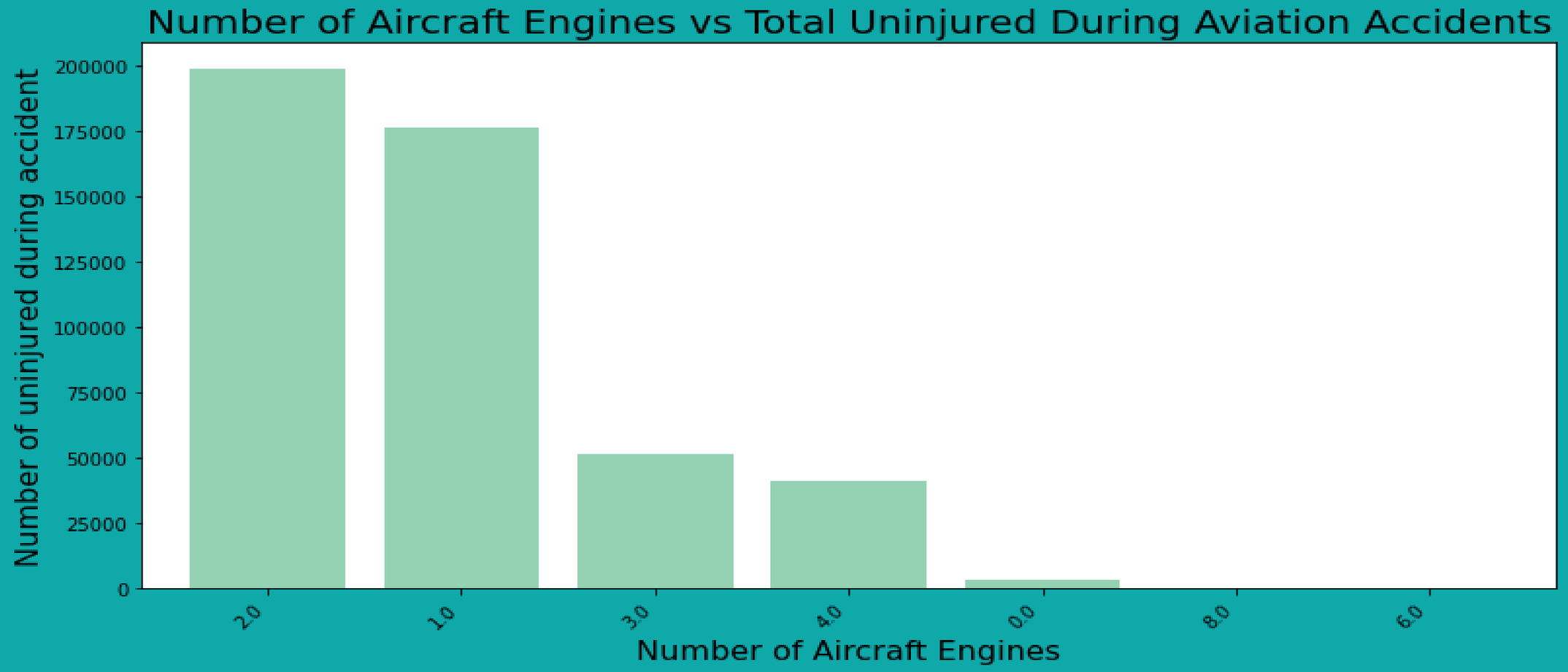


GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Safety of aircraft based on number of engines

Aircraft with 2 engines experienced the highest number of uninjured at 198,945 while those with one engine came second with 176,367 uninjured.

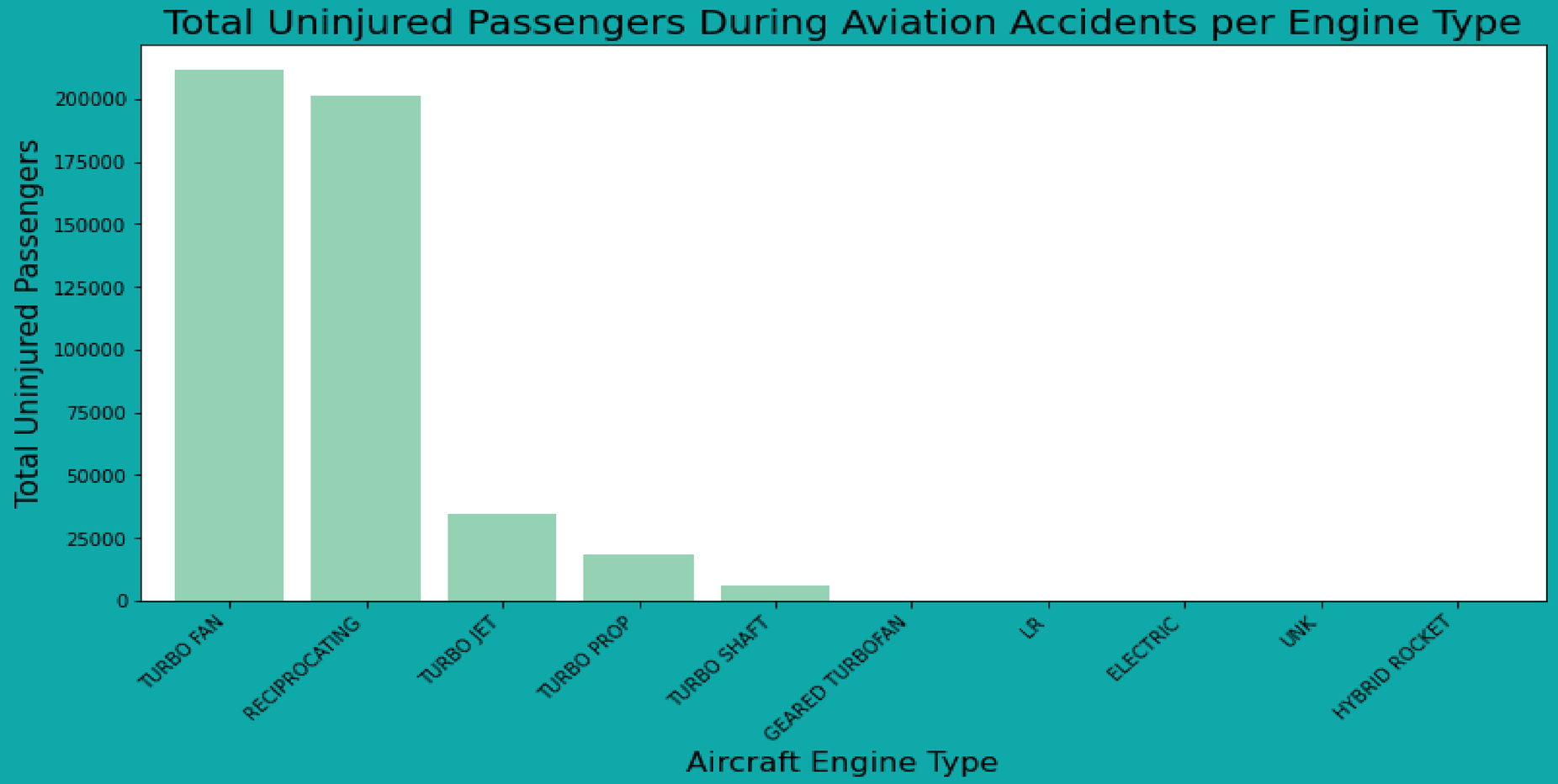


GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Safety of aircraft based on engine type

Turbo Fan, Reciprocating and Turbo Jet are the engines type with then highest uninjired at 211,368, 201,222 and 34,247, respectively during the period under review.



GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Safety of aircraft based on engine type ...continued

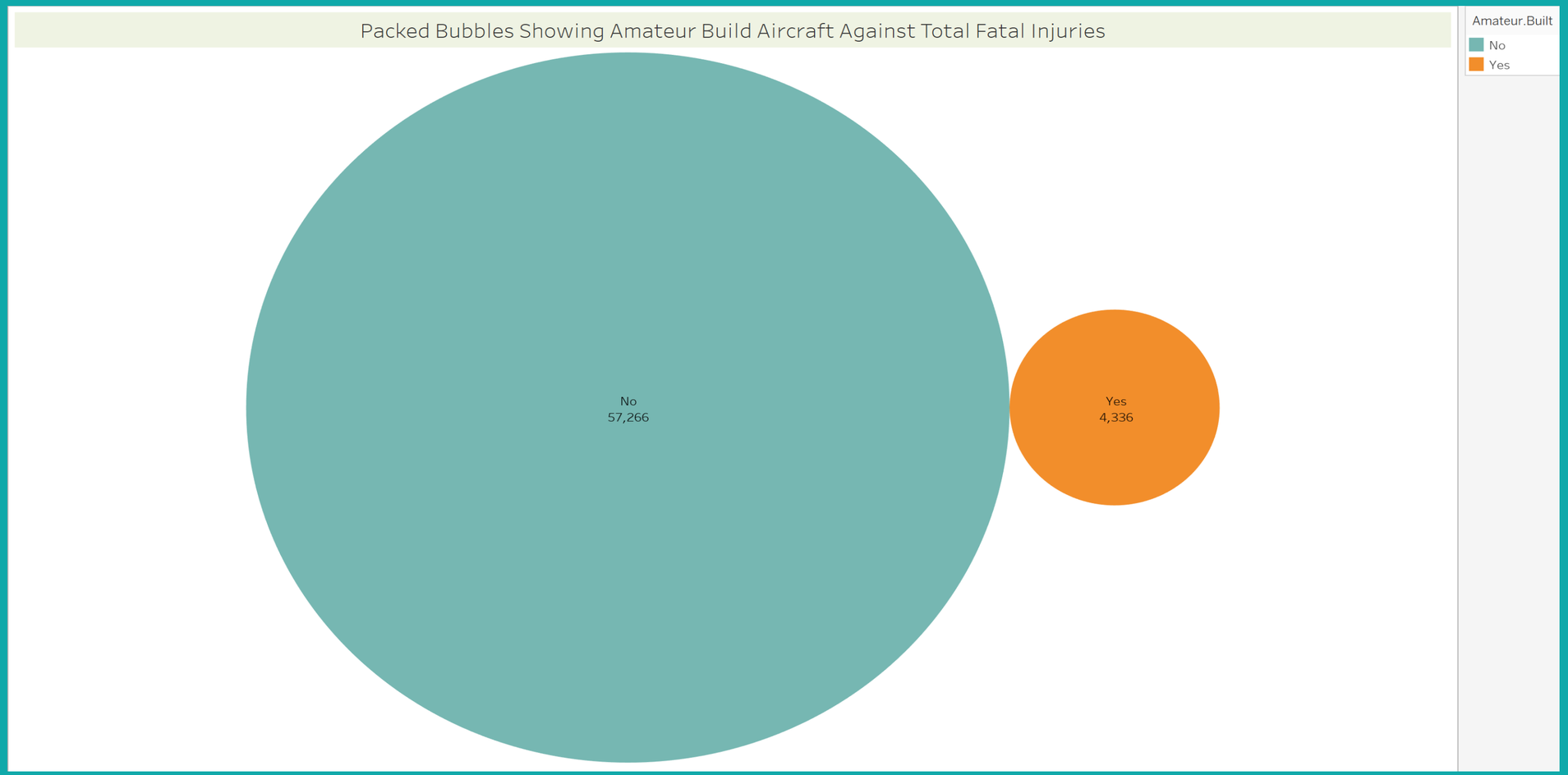
Turbo Fan engine type was still considerably safer with reported fatal injuries of 5,047 in all the aviation accidents in the period of review when compared to Reciprocating which had a high of 50,224 reported fatal injuries.

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Safety of aircraft based on the experience of the builder

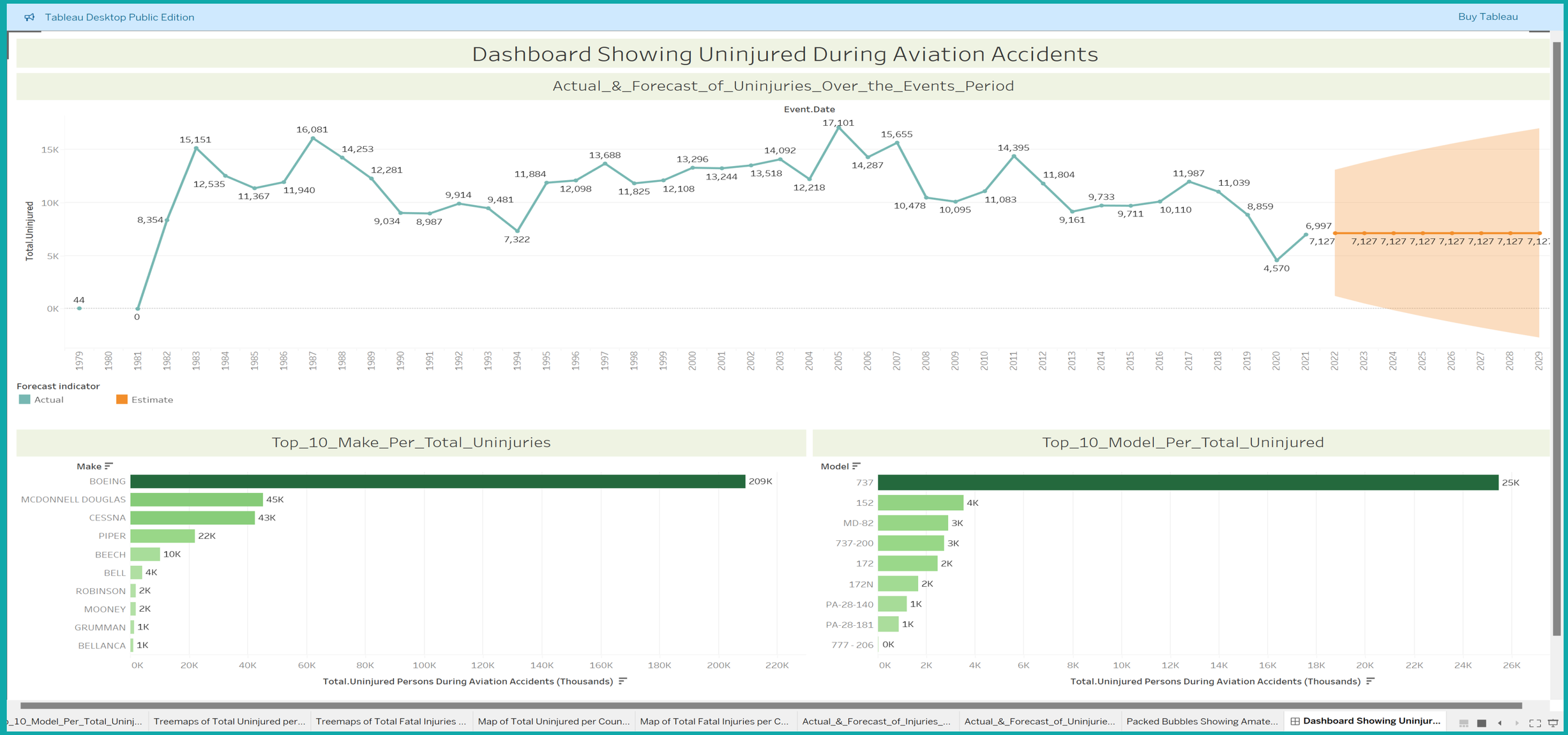
The aircrafts build by amateurs were safer with less fatal injuries compared to aircrafts build by non-amateurs.



GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Summary of forecast and performance of makes, model on uninjured passengers

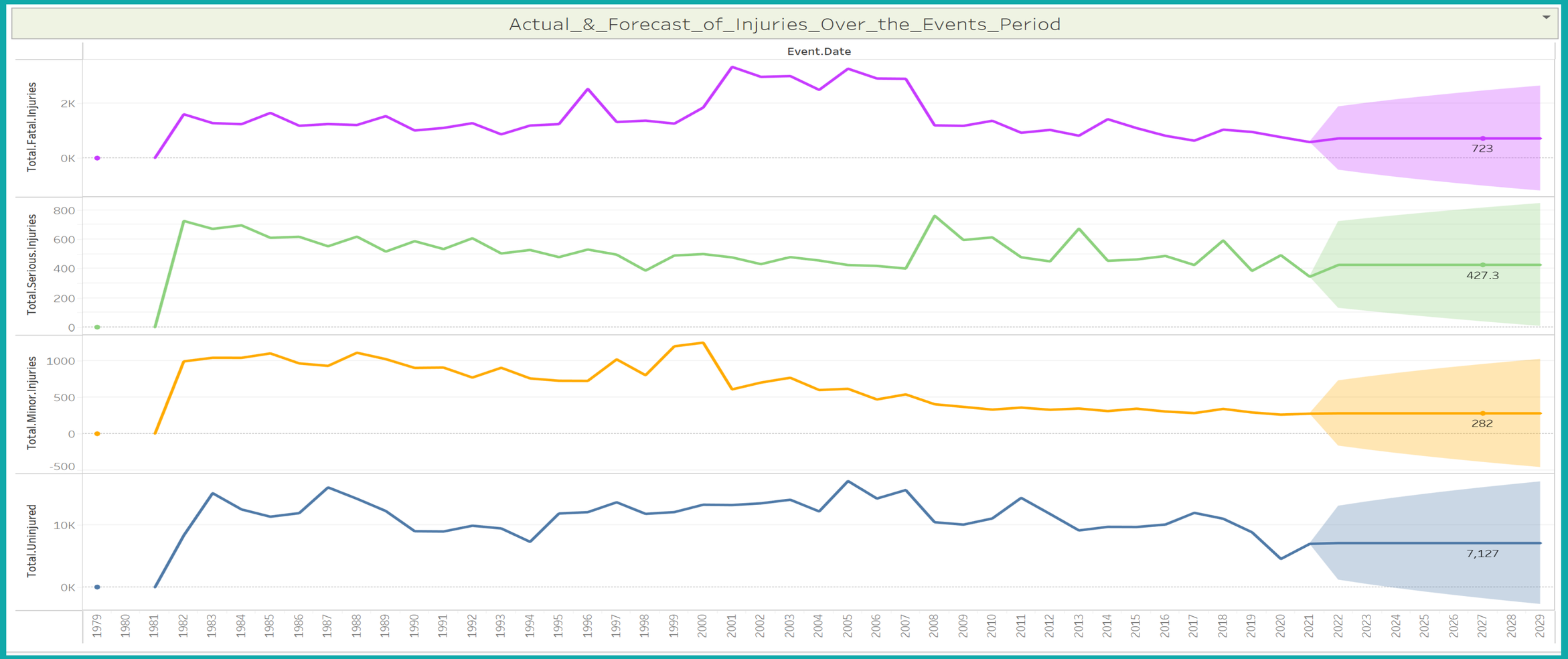


GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Aviation industry forecast

It’s the right decision for the company to enter the aviation industry. The safety of the passengers remain to be higher going forward as the number of uninjured is considerably higher compared to the injured.



GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Conclusion

Findings

- The manufacturers of aircraft with the highest percentage of uninjured cases during accidents were Boeing, McDonnell Douglas, and Cessna. Boeing led the industry in the number of people who were not wounded during the accident incidents with 209,195, followed far behind by MCDonnel Douglas with 45,292. Cessna ranked third during the review period with 42,522 uninjured.

- According to an investigation of the Aviation Accident Database & Synopses, up to 2023 dataset, this is the case, the top three aircraft manufacturers in terms of fatal accident injuries are Cessna, Boeing, and Piper, with 13,044, 9,223, and 8,364, respectively.

- The engine type that had the greatest number of fatalities and uninjuries was reciprocating.

- The aircrafts build by amateurs were safer with less fatal injuries compared to aircrafts build by non-amateurs

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Conclusion

Findings

- The most often implicated aircraft models in deadly accidents include the 737, 737-200, and 152 types.

- The models with the greatest number of undamaged cases during the review period were the 737, 777, and DC-10-10. The 737 model recorded a significant number of uninjured incidents—25,461—while the 777 and DC-10-10 models reported 9,439 and 6,860 uninjured occurrences, respectively.

- The engine types with the highest uninjired values were Turbo Fan, Reciprocating, and Turbo Jet, with respective values of 211,368, 201,222, and 34,247.

- There were no fatal injuries in aircraft with six or eight engines between October 1948 and December 2022.

- Two-engine aircraft saw the most number of unharmed, totalling 198,945; one-engine aircraft came in second, with 176,367 uninjured.

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

Conclusion

Recommendation:

- The business to think about buying aircrafts of Boeing and MCDonnell Douglas make, considering the large proportion of people who were reported of not getting hurt during the accidents between 1948 and 2023, experienced by the two makes of aircraft.

- Turbo fan engine type had the highest number of uninjured, making it safe.

- The aircraft with two engines proved to be the safest, with the maximum number of uninjured—198,945—while the aircraft with one engine came in second with 176,367 uninjured. The corporation should purchase one of these aircrafts.

- The aircrafts build by amateurs are a good considerations to buy as they were safer with less fatal injuries compared to aircrafts build by non-amateurs.

GILBERT KIPKIRUI CHERUIYOT

Contacts: gilbert.cheruiyot@student.moringaschool.com

CONTACT US

CBD, Nairobi

+254700123456

gilbert.cheruiyot@student.moringaschool.com

@gilbert_kipkirui_cheruiyot

www.moringacompany.com