

Ubuntu LTD Business Analysis





Overview

The following presentation will Explain an analysis done for Ubuntu Ltd new portfolio as they seek to enter the aviation industry.

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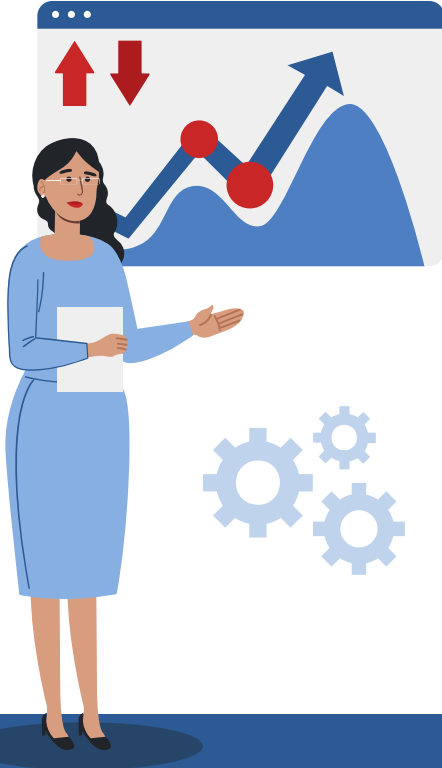
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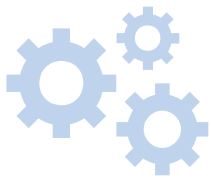
01

INTRODUCTION

The Problem

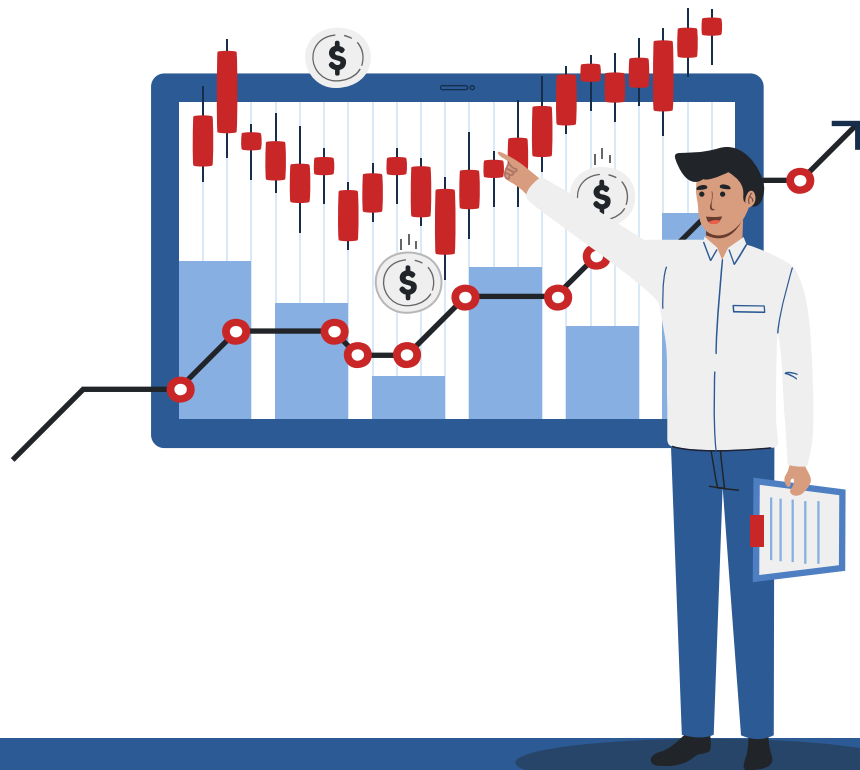
Developing an aircraft selection framework for Ubuntu Ltd:
Balancing safety, dependability,
operational efficiency, and
profitability.



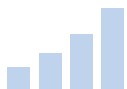


02

Analysis



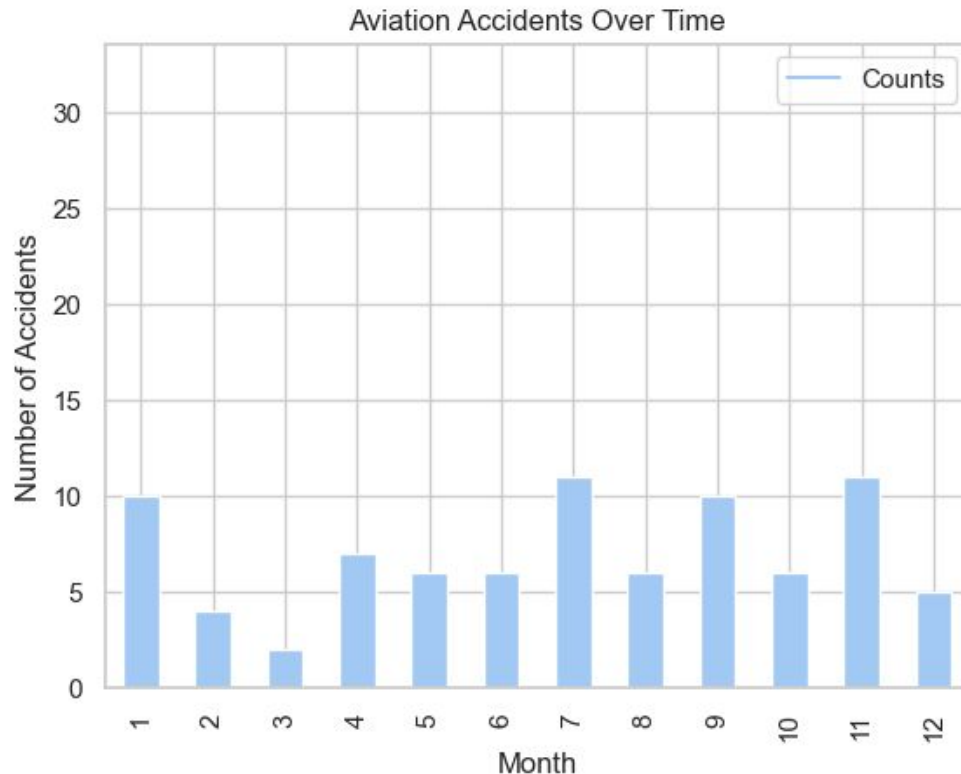
Accident Trends over time

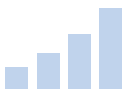


The bar chart (monthly data) highlights June-August (months 6–8) as high risk, with accident counts peaking at 10 incidents. If validated, this seasonality suggests:

- Redirect resources to preemptive maintenance or crew training during these months.

Together, these trends enable safer, cost-effective entry into aviation.

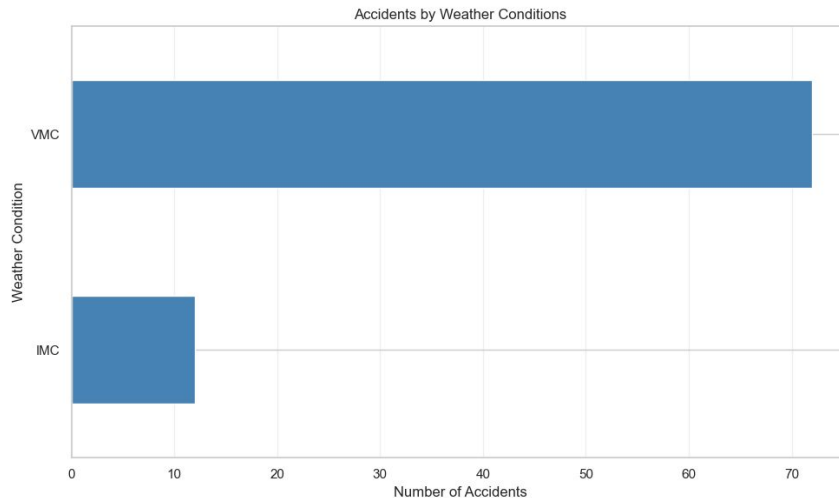




Weather conditions

Clear Weather Paradox: 75% of Most accidents occur in VMC suggests pilot complacency vs technical failure

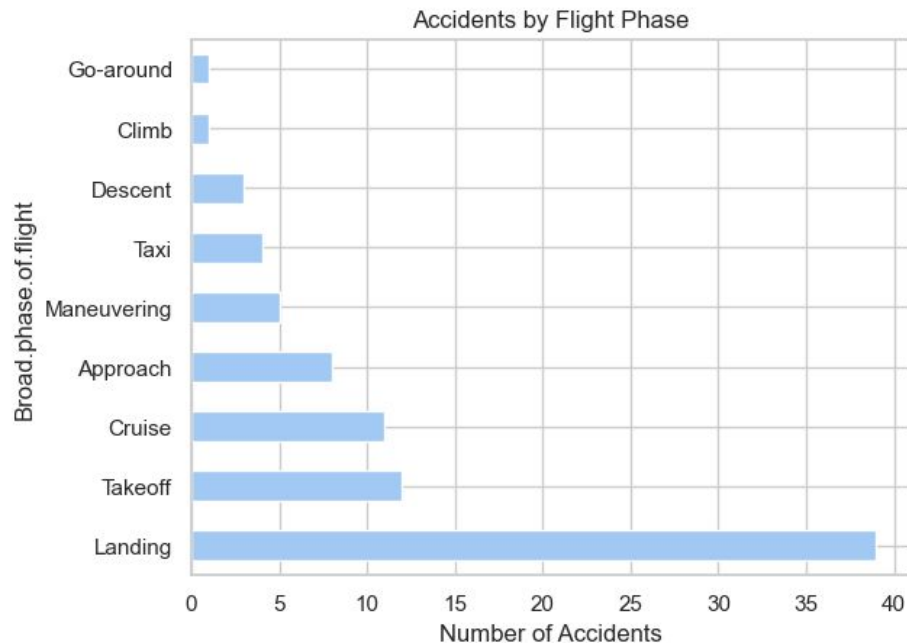
IMC (Instrument Conditions)
Warning: 3x fewer accidents but higher severity.

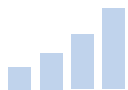




Risk Prone Flight Phases

- Takeoff/Landing Dominance: 73% of accidents occur here.
- Cruise Phase Warning: Fewer accidents but higher fatalities.
- Taxi Risk: 12% of incidents.





Correlation between Injury severity types

1. Fatal-Serious Correlation:
 - Accidents with fatalities likely have multiple serious injuries.
2. Minor Injury Independence:
 - Minor injuries occur in isolation.





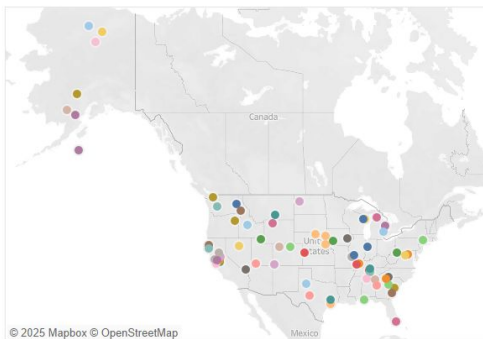
Dashboard



The Dashboard presents an aircraft risk assessment report highlighting Beech and Cessna models with the highest risk scores, injury types, and weather or flight phase impacts.

Aircraft Model Risk Profile

Geographic distribution of incidents

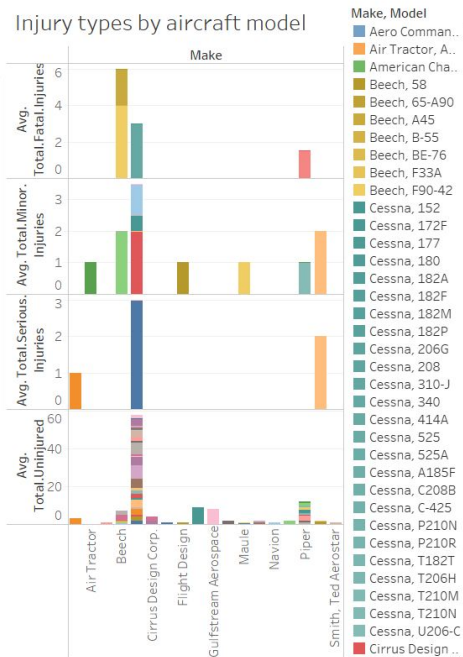


Weather condition impact on Aircraft

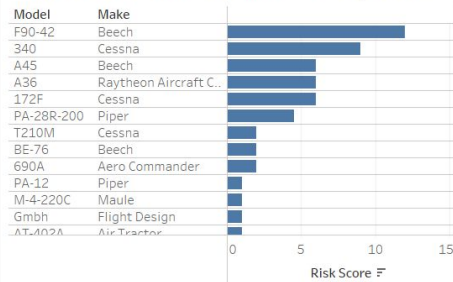
Weather.Condition
■ IMC
■ VMC



Injury types by aircraft model



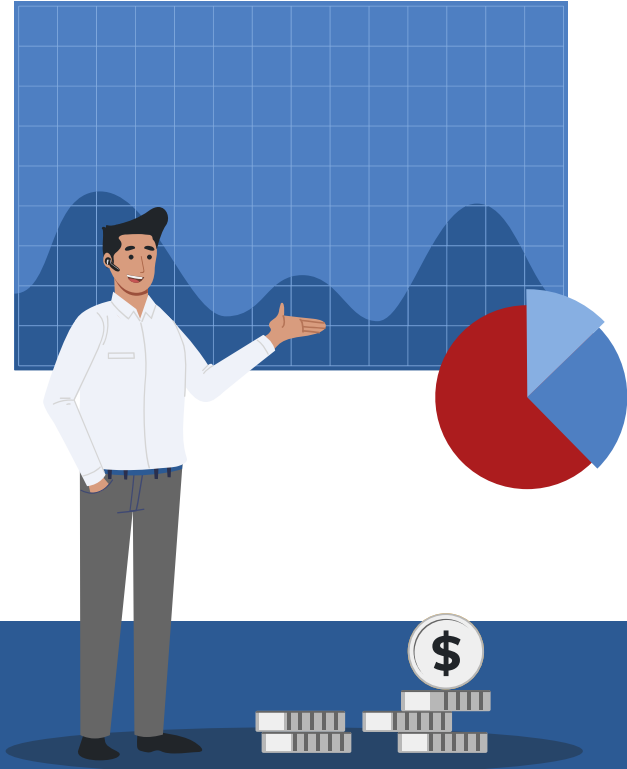
Highest Risk Score by Aircraft Make/Model



Distribution of Total Injuries for each phase of flight

Broad.phase.of.flight
■ Approach
■ Climb
■ Cruise
■ Descent
■ Landing
■ Maneuvering
■ Takeoff
■ Taxi





03

Actionable Insights



THANK YOU!

Do you have any questions?

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