

Final Project Submission

Phase 1 Project Description

Judah Odida

Part time Student

Project review : 29/04/2025

Instructor: Maryann Mwikali

* Blog post URL:



Click here to add text

Phase 1 Project Description

Aircraft Risk Evaluation For Business Expansion

By Judah Odida



Executive Summary

- Evaluated 2,098 aircraft records
- Focus on incident and injury data
- Created Risk Score
- Insights for safe business growth



Data Overview

- Dataset Size: 2,098
- Features: Fatal, Serious, Minor Injuries, Uninjured
- Derived Risk Score
- Cleaned missing data



Methodology

- Data Cleaning
- Risk Score Calculation
- Visualization
- Business Insight Extraction



Key Finding 1: Risk Score Skewed

- Most aircrafts have Risk Score = 0
- Few high-risk aircraft dominate



Key Finding 2: Few Models Drive Risk

- Top 10 models account for majority risk
- Focus resources here





Key Finding 3: Injury Correlations

- Fatal \leftrightarrow Serious injuries strongly correlated
- Different causes for Minor injuries





Business Recommendations

1. Prioritize inspections on Top 10 risky models
2. Strengthen operational safety
3. Monitor medium-risk models



Conclusion

- Focus on data-driven safety
- Improve operational reliability
- Enable strategic expansion

The End

Questions & Discussion

Thank You!

Judah odida

