Final Project Submission

Please fill out:

- Student name: NEEMA ELALY
- Student pace: self paced / part time/ full time
- Scheduled project review date/time:
- Instructor name:
- Blog post URL:

BUSINESS PROBLEM

Your company is expanding in to new industries to diversify its portfolio. Specifically, they are interested in purchasing and operating airplanes for commercial and private enterprises, but do not know anything about the potential risks of aircraft. You are charged with determining which aircraft are the lowest risk for the company to start this new business endeavor. You must then translate your findings into actionable insights that the head of the new aviation division can use to help decide which aircraft to purchase.

BUSINESS UNDERSTANDING

The objective of this analysis is to diversify the company's portfolio by entering the aviation sector, through the purchase and operation of aircraft. This involves both commercial and private sectors. The key is to identify aircraft that will meet the company's needs such as cost efficiency, reliability, market demand and certifications to ensure operational ease and long term growth.

INTRODUCTION: REAL WORLD PROBLEM This project seek to address the challenges companies face when selecting aircraft for commercial and private enterprises, aiming to minimize risks and optimize profitability by identifying the most suitable aircraft models to start operations.

STAKEHOLDERS AND HOW THEY WOULD USE THE PROJECT

1. INVESTORS They would use the project's finding to guide purchasing decisions, evaluate potential financial returns, and assess the overall viability of entering the aviation sector.
2. AVIATION OPERATION MANAGERS These stakeholders would use the project to select aircraft models that are easy to maintain, have reliable performance records and fit the company's operational needs.
3. SAFETY AND COMPLIANCE TEAMS The project would provide them with detailed insights into aircraft safety records and their compliance with industry regulations, helping to minimize safety risks and avoid regulatory issues.
4. MAINTENANCE TEAMS They would use the project to identify aircraft that requires less frequent or less expensive maintenance and have good availability of parts and services