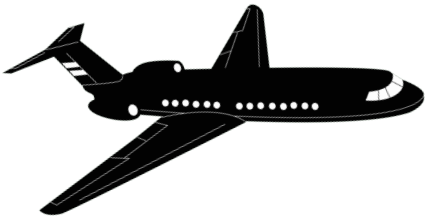
CODERS READY

COURSE: Data Science, **ASSIGNMENT** 01

General Report on Aircrafts

Mr. Mann



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Aircrafts

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Figure 1: Modern Airplane

1 Introduction

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1.1 Aircrafts and their History

An aircraft is a vehicle that can fly with the assistance of the air. In order to resist the pull of gravity, it either uses static lift, dynamic lift from an airfoil,[1] or, in a few extremely rare circumstances, direct downward thrust from its engines. Common types of aircraft include airplanes, helicopters, airships (including blimps), gliders, paramotors, and hot air balloons.[2] In the distant past, when people first started building aircraft, they were inspired by the freedom of flying that they saw in birds. However, important advancements in the development of sustained and controlled flight machines didn't occur until the late 19th and early 20th centuries. Here are a few early aircraft designs worth noting: Ornithopters: Inventors like Leonardo da Vinci imagined inventions that mimicked the flapping motion of wings after being inspired by birds. Ornithopters was the name given to these devices. They never succeeded in sustained flight, but they did provide the foundation for understanding aerodynamics.

1.1.1 *Some early Attempts*

An aircraft is a vehicle that is able to fly by gaining support from the air. It counters the force of gravity by using either static lift or the dynamic lift of an airfoil,[1] or, in a few cases, direct downward thrust from its engines. Common examples of aircraft include airplanes, helicopters, airships (including blimps), gliders, paramotors, and hot air balloons.[2]

2 prelimnary Designs

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2.1.1 *Gradual improvements*

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Figure 2: Modern Airplane

3 Discussion and Conclusion

The final section of this abstract focuses on the physics that make flying possible while offering a glance into the intriguing world of aviation.

References

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[6] P. Henson, "Stories of the wrights' flight," *Pacific Life Foundation- Smithsonian*, pp. 1–16, 2003.