metin, amblem, logo, ticari marka içeren bir resim

Açıklama otomatik olarak oluşturuldu

**ISTANBUL AYDIN UNİVERSITY**

**2023-2024 ACADEMIC YEAR**

**INTRODUCTION TO AEROSPACE ENGINEERING**

**FALL SEASON - PROJECT**

**LECT.: Dr. Öğr. Üyesi NURİ GÖKMEN KARAKİRAZ**

**MEHMET EMİN ARUK – B2205.170011**

**AEROSPACE ENGINEERING**

**DATE : 08.11.2023**

**ROCKET LAUNCHES RESEARCH PROJECT**

## Project Objective

This project aims to analyze the success rates of space exploration and aerospace projects worldwide. In this project, state-sponsored launches on a country basis will be compared with launches conducted by private companies.

## Data Collection

As part of the project, data on space launches worldwide will be collected. This data will be categorized into two main groups: state-sponsored launches on a country basis and launches by private companies. Data sources include National Space Agencies, official sources of private companies, and reliable space news outlets.

## Analysis and Visualization

The analysis of the data will be performed using the Python programming language. Key libraries such as pandas, matplotlib, and numpy will be utilized for data manipulation, analysis, and visualization. The data will be analyzed separately for country-based and private company-based launches, and success rates will be visualized.

metin, ekran görüntüsü, yazı tipi içeren bir resim

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## Reporting and Insights

Based on the analysis results, success rates between countries and private companies will be compared, and these findings will be reported. Additionally, the reasons for the failure of each launch will be examined, and recommendations for future launches will be provided.

## GitHub Sharing

The project results and the code used will be shared on GitHub in a repository. This will ensure transparent sharing of the project and allow interested parties to review your work.

My GitHub repository link: <https://github.com/eminaruk?tab=repositories>