## Portfolio – Milestone 1

For the Portfolio Milestone, I have created the repository in GitHub.

Portfolio URL: <https://github.com/AartiRamani/DataScience-Portfolio/tree/main>

README.md URL: - <https://github.com/AartiRamani/DataScience-Portfolio/blob/main/README.md>

The following projects will be included in the portfolio.

### [**1. Airline Performance**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#1-airline-performance)

**Description**:

Airline cancellations or delays are one of the major causes of passenger inconvenience. This project aims to gain meaningful insights into the best-performing airlines

and understanding the causes of delays and cancellations across different airline carriers.

As a performance measure, we will be exploring on-time arrivals, the number of cancellations by carrier, and also explore different reasons for a carrier delay.

**Course**: Exploratory Data Analysis

**GitHub**: <https://github.com/AartiRamani/DataScience-Portfolio/blob/main/Airline%20Performance/README.md>

**Data**: Since the volume of data is huge, the link to download data is mentioned in the README.md file.

### [**2. Airline Delay Prediction**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#2-airline-delay-prediction)

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-1)

Passenger inconvenience is often caused by airline cancellations and delays, making it an important issue to address in the airline industry.

As someone who works in this field, I have always been fascinated by market prediction and flight performance measures.

Using different models, this project aims to determine the best approach to predict the likelihood of a flight being either on time or delayed.

**Course:** Data Mining

**GitHub:** <https://github.com/AartiRamani/DataSciencePortfolio/blob/main/Airline%20Delay%20Prediction/README.md>

**Data:** Since the volume of data is huge, the link to download data is mentioned in the README.md file.

### [**3. Breast Cancer Prediction**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#3-breast-cancer-prediction)

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-2)

Breast cancer, a complex and formidable adversary, demands meticulous scrutiny and proactive interventions to minimize its impact.

This project embarks on a journey to leverage the power of predictive modeling to enhance the early detection of breast cancer, a pressing concern that deeply impacts the lives of countless individuals.

**Course:** Predictive Analytics

**GitHub:** <https://github.com/AartiRamani/DataSciencePortfolio/blob/main/Breast%20Cancer%20Prediction/README.md>

**Data:** Since the volume of data is huge, the link to download data is mentioned in the README.md file.

[**4. Credit Card Fraud Prediction**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#4-credit-card-fraud-prediction)

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-3)

With the growing prevalence of credit card fraud, businesses and financial institutions face a critical challenge. A problem that needs an effective solution to detect and prevent

fraudulent transactions in real-time. This project aims to use machine learning to build a robust fraud prediction system that distinguishes legitimate from fraudulent credit card

transactions.

**Course:** Applied Data Science

**GitHub:**

<https://github.com/AartiRamani/DataScience-Portfolio/blob/main/Credit%20Card%20Fraud%20Prediction/README.md>

**Data:** Since the volume of data is huge, the link to download data is mentioned in the README.md file.

### [**5. Airline Travel Safety**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#5-airline-travel-safety)

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-4)

In a world inundated with constant news updates, aviation incidents often capture our attention and raise concerns among even the most intrepid travelers. This project embarks on a

statistical exploration, spanning the years 1985 to 2014, to shed light on the reality of airline safety. Through insightful visualizations, informative blogs, and engaging

infographics, we aim to uncover the truth about flight safety and provide valuable insights to the aviation community and the public.

**Course:** Data Presentation & Visualization

**GitHub:**

<https://github.com/AartiRamani/DataScience-Portfolio/blob/main/Airline%20Travel%20Safety/README.md>

**Data:** <https://github.com/AartiRamani/DataScience-Portfolio/tree/main/Airline%20Travel%20Safety/Data>

### [**6. Movie Recommender System**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#6-movie-recommender-system) **(WIP)**

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-5)

In a world overflowing with entertainment options, finding the perfect movie can be a daunting task. This project is designed to simplify the process by leveraging machine learning algorithms to recommend movies tailored to users' tastes and preferences.

**Course:** Predictive Analytics

**GitHub:**

**Data:**

### [**7. Sentiment Analysis**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#7-sentiment-analysis) **(WIP)**

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-6)

In today's digital age, opinions and sentiments are expressed abundantly across the web, from social media posts to product reviews. This project harnesses the power of machine learning to analyze and understand these sentiments.

**Course:** Data Mining

**GitHub:**

**Data:**

### [**8. Diabetes Prediction**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#8-diabetes-prediction) **(WIP)**

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-7)

Diabetes is a prevalent health concern worldwide, affecting millions of lives. This project is dedicated to the early detection and prediction of diabetes using data-driven approaches. Harnessing the power of machine learning and medical data, the aim is to provide valuable insights into the risk factors and predictive indicators of diabetes.

**Course:** Predictive Analytics

**GitHub:**

**Data:**

### [**9. Project 2**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#9-project-2) **(WIP)**

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-8)Thiswill be the project I develop in the DSC680-T302 Applied Data Science course (Projects 2)

**Course:** Applied Data Science

**GitHub:**

**Data:**

### [**10. Project 3**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#10-project-3) **(WIP)**

[**Description:**](https://github.com/AartiRamani/DataScience_Portfolio/blob/main/README.md#description-9)Thiswill be the project I develop in the DSC680-T302 Applied Data Science course (Projects 3)

**Course:** Applied Data Science

**GitHub:**

**Data:**

Note: The course in which the project was developed is mentioned for each project for reference. This will not be updated in the Portfolio.

**APPENDIX**:

(WIP) – Work in Progress