**Detailed Project Report (DPR)**

By, Sourav Mandal

**Project Title:** NBA Data Analytics using Power BI

**Project Manager:** Bard

**Project Start Date:** January 1, 2023

**Project End Date:** March 1, 2023

**Project Goal:**

The goal of this project is to use Power BI to analyze NBA data and identify the factors that contribute to winning in the NBA. The project will also explore how these factors have changed over time.

**Project Scope:**

The project will involve the following tasks:

1. Collecting data from three different sources: NBA Stats, Basketball Reference, and Stats.NBA.com.
2. Cleaning and formatting the data.
3. Using Power BI to analyze the data and create visualizations.
4. Identifying the factors that contribute to winning in the NBA.
5. Exploring how these factors have changed over time.

**Project Deliverables:**

The project will deliver the following deliverables:

1. A report that summarizes the findings of the data analysis.
2. A set of visualizations that illustrate the findings of the data analysis.
3. A presentation that summarizes the findings of the data analysis and the visualizations.
4. A white paper that explores how the factors that contribute to winning in the NBA have changed over time.

**Project Risks:**

The following are some of the risks associated with the project:

* The data may be incomplete or inaccurate.
* The data analysis may be complex and time-consuming.
* The visualizations may not be effective in communicating the findings of the data analysis.
* The white paper may be too long or too technical.

**Project Mitigation Strategies:**

The following are some of the mitigation strategies for the risks associated with the project:

* The data will be carefully checked for completeness and accuracy.
* The data analysis will be broken down into smaller tasks that can be completed more easily.
* The visualizations will be reviewed by a variety of people to ensure that they are effective.
* The white paper will be written in a clear and concise manner, and it will be peer-reviewed by experts in the field.

**Project Success Criteria:**

The project will be considered a success if the following criteria are met:

* The report summarizes the findings of the data analysis in a clear and concise manner.
* The visualizations illustrate the findings of the data analysis in a way that is easy to understand.
* The presentation summarizes the findings of the data analysis and the visualizations in a way that is engaging and informative.
* The white paper provides a comprehensive overview of how the factors that contribute to winning in the NBA have changed over time.

**Project Conclusion:**

This project will use Power BI to analyze NBA data and identify the factors that contribute to winning in the NBA. The project will also explore how these factors have changed over time. The project is expected to be completed on time and within budget.

In addition to the above, the project will also include the following:

* A discussion of the limitations of the data and the analysis.
* A list of recommendations for future research.

The project will be of interest to a variety of stakeholders, including NBA fans, coaches, general managers, and statisticians. The project will provide insights into the factors that contribute to winning in the NBA, and it will help to identify trends in the league. The project will also be a valuable resource for future research on NBA data analytics.