Winning the Battle: A Data Science Case Study on PUBG Strategy and Success

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Winning the Battle

This report presents a case study, focusing on *PUBG: BATTLEGROUNDS*. The analysis aims to understand how player actions and strategies affect success in solo game modes. Using open-source data from Kaggle, the study evaluates key gameplay metrics and their impact on win rates.

Mission Statement

The primary goal of this study is to identify the most effective strategies for winning *PUBG* solo matches. By analysing player actions and performance metrics, the research provides data-driven insights that can help players optimize their gameplay.

Limitations and Objectives

- The study is limited to **Solo** and **Solo-FPP** game modes.
- Data is filtered to include only **distinct players who played exactly once**.
- Matches analysed do not necessarily contain **100 players each**.

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- The study aims to identify the **correlation between player actions and win rates**.
- The research seeks to differentiate between **aggressive and passive playstyles**.

Subjects

The subjects of this study are **PUBG players** participating in solo game modes. Their in-game actions and performance metrics, such as kills, healing, boosting, and travel distance, are analysed to determine their impact on success.

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List of Attributes

- **Kills**: Number of opponents eliminated
- **Boosts**: Use of energy drinks and painkillers
- **Heals**: Use of health packs and bandages
- **Travel Distance**: Distance covered by a player in the game
- **Win Placement**: Final rank of the player in the match

Attribute Name	Description	Data Type
Player ID	Unique identifier for each player	String
Match_ID	Unique identifier for each match	String
Kills	Number of kills achieved by the player	Integer
Heals	Number of healing actions performed	Integer
Boosts	Number of boosting items used	Integer
Travel Distance	Total distance travelled by the player	Float
Win Placement	Final placement in the match (rank)	Integer

Dashboard

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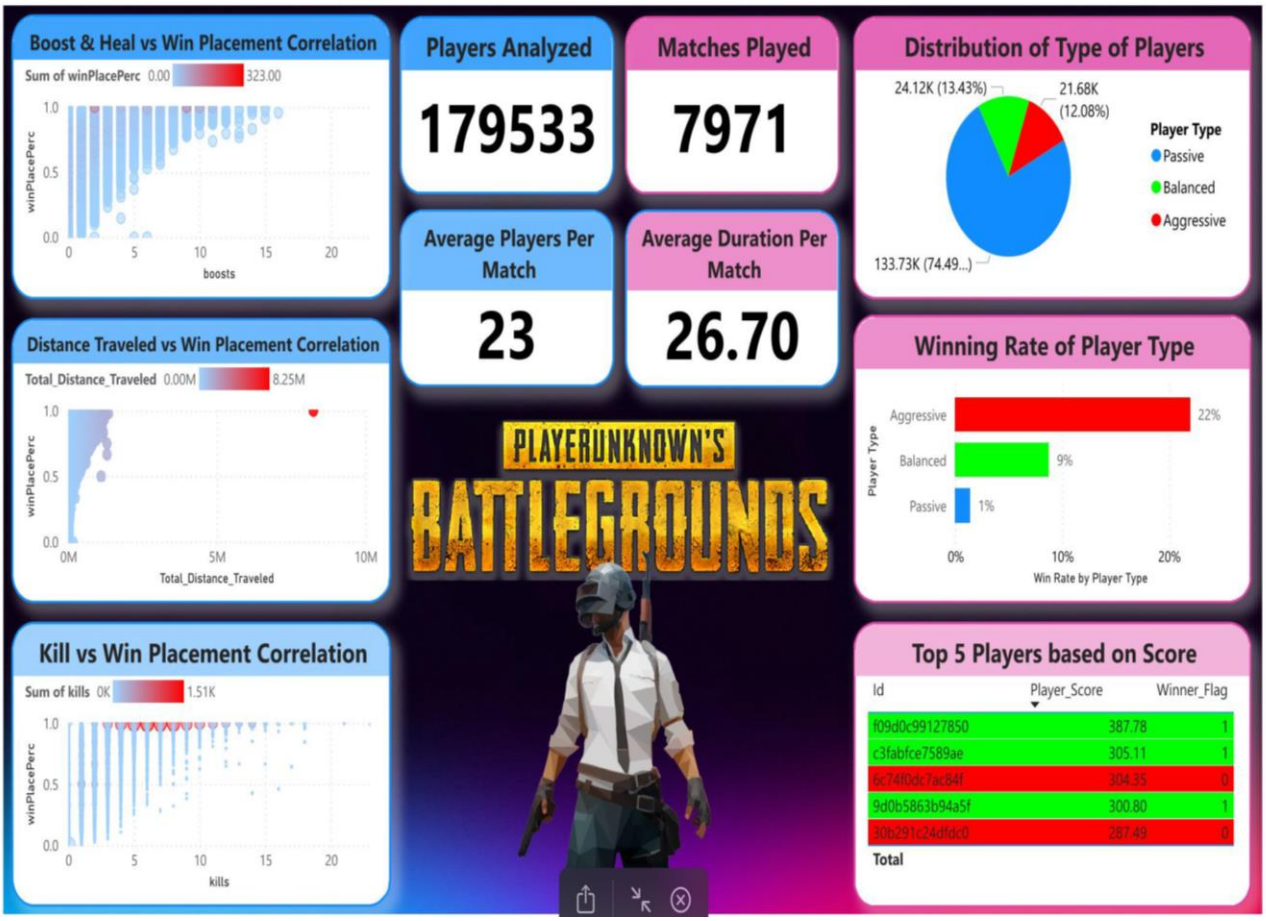

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CONCLUSION

The study concludes that **aggressive gameplay strategies**, characterized by high kills, frequent use of healing and boosting items, and extensive travel, significantly increase the likelihood of winning in *PUBG* solo matches. By leveraging these insights, players can refine their strategies and improve their performance in future matches.

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