Datasheet for 'A dataset'*

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1 Datasheet for BLG Player Performance Dataset

1.1 Motivation

- 1. For what purpose was the dataset created?

 The dataset was created to predict player performance for Bilibili Gaming (BLG) in the League of Legends Pro League (LPL). It aims to assist teams in making data-driven decisions on player strategies, performance optimization, and resource allocation.
- 2. Who created the dataset?

 The dataset was created by Riot Game and oracleselixir oracleselixir (2024).

1.2 Composition

- 1. What do the instances represent?

 Each instance represents an individual game played by a BLG player, including in-game metrics and results.
- 2. How many instances are there in total?

 The dataset contains approximately 470 instances, corresponding to all games played by BLG in the 2024 LPL season.
- 3. Does the dataset contain all possible instances?

 The dataset is a complete record of BLG games for the selected season. However, it does not include games from other teams or non-professional matches.
- 4. What data does each instance consist of?

 Each instance includes metrics such as vision score, total gold, total CS, damage to champions, KDA, game duration, and match outcomes.

^{*}Code and data are available at: https://github.com/hoodiexxx/lol_win_rate_prediction.

- 5. Is there a label or target associated with each instance? Yes, the target variable is the Kill-Death-Assist ratio (KDA).
- 6. Is any information missing from individual instances?

 No significant data is missing. All in-game metrics are complete.
- 7. Are relationships between instances made explicit?

 No explicit relationships between instances are defined. Each instance is independent.
- 8. Are there recommended data splits?
 Yes, the dataset is split into training (80%) and testing (20%) sets.
- 9. Are there errors, noise, or redundancies?

 Minor inconsistencies may exist due to variations in game logs, but these have been minimized during preprocessing.
- 10. Is the dataset self-contained?

 Yes, the dataset is self-contained and does not rely on external resources.
- 11. Does the dataset contain confidential data?

 No, all data is derived from publicly available match records.
- 12. Does the dataset contain offensive or sensitive data?

 No, the dataset is free from offensive or sensitive content.
- 13. Does the dataset identify subpopulations?

 Yes, the dataset categorizes players by role (e.g., Top Lane, Jungle).
- 14. Is it possible to identify individuals?

 No, the dataset only includes player names and their roles without sensitive personal information.
- 15. Does the dataset contain sensitive data?

 No, the dataset does not include sensitive attributes like race, religion, or financial data.
- 16. Any other comments? None.

1.3 Collection Process

- 1. How was the data acquired?

 The data was extracted from publicly available match records and APIs such as Riot Games' data API.
- 2. What mechanisms were used to collect the data?

 Data was collected using API scripts and verified for completeness and accuracy.

- 3. If the dataset is a sample, what was the sampling strategy?

 The dataset is not a sample; it is a complete record of BLG's 2024 matches.
- 4. Over what timeframe was the data collected?

 Data was collected during the 2024 LPL season.
- 5. Were any ethical review processes conducted?

 Ethical approval was not required as the data is publicly available.
- 6. Did you collect the data directly?

 Yes, data was collected from Riot Games' API and match records.
- 7. Were individuals notified about the data collection?

 Not applicable, as the data pertains to publicly available information.
- 8. Did individuals consent to data collection?

 Not applicable, as the data pertains to publicly available information.
- 9. Any other comments? None.

1.4 Preprocessing, Cleaning, and Labeling

- 1. Was any preprocessing done?

 Yes, data was cleaned to remove missing values and calculate derived metrics like KDA.
- 2. Was raw data saved?

 Yes, the raw data is archived for future use.
- 3. Is the preprocessing software available?

 Yes, preprocessing scripts are available in the accompanying GitHub repository.
- 4. Any other comments? None.

1.5 Uses

- 1. Has the dataset been used for any tasks already?

 Yes, it was used to build a Bayesian mixed-effects model for predicting player KDA.
- 2. What other tasks could the dataset be used for?

 The dataset could be used for performance analysis, team strategy optimization, and meta-analysis of in-game metrics.
- 3. Are there tasks for which the dataset should not be used?

 The dataset should not be used for any non-esports purposes, such as identifying personal information.

4. Any other comments? None.

1.6 Maintenance

- 1. Who will maintain the dataset? No one
- 2. How can the dataset owner be contacted? $\rm N/A$
- 3. Will the dataset be updated? $\rm N/A$
- 4. Any other comments? None.

References

oracleselixir. 2024. "Oracle's Elixir - Lo
L Esports Stats."
 ${\rm https://oracleselixir.com/tools/downloads.}$