PUBG GAME DATA ANALYSIS AND PREDICTION

YANG CAO

Abstract. With the rise of e-sports games, data analysis plays an increasingly important role. PUBG has taken the world by storm with its diverse playability. As a shooting game, players can move, supply, and shoot in the map to obtain higher terms. This paper uses different models to predict the final ranking based on different game data. Finally, the linear regression model was used to obtain 0.015303007019988265 test MSE.

Contents

Date: (None).
2020 *Mathematics Subject Classification.* Artificial Intelligence.
Key words and phrases. Machine Learning, data visualization, prediction.
Thanks to all members of TULIP...

1. Introduction

In a PUBG game, up to 100 players start in each match (matchId). Players can be on teams (groupId) which get ranked at the end of the game (winPlacePerc) based on how many other teams are still alive when they are eliminated. In game, players can pick up different munitions, revive downed-but-not-out (knocked) teammates, drive vehicles, swim, run, shoot, and experience all of the consequences – such as falling too far or running themselves over and eliminating themselves. Different game behaviors will lead to different final rankings, so the main purpose is to build a model to predicts players' finishing placement based on their final stats, on a scale from 1 (first place) to 0 (last place).

What is the specific problem considered in this paper?

This paragraph narrows down the topic area of the paper. In the first paragraph you have established general context and importance. Here you establish specific context and background.

Contribution

"In this paper, we show that ...". This is the key paragraph in the intro - you summarize, in one paragraph, what are the main contributions of your paper given the context you have established in paragraphs 1 and 2. What is the general approach taken? Why are the specific results significant? This paragraph must be really good.

You should think about how to structure these one or two paragraph summaries of what your paper is all about. If there are two or three main results, then you might consider itemizing them with bullets or in test.

- e.g., First ...
- e.g., Second ...
- e.g., Third ...

If the results fall broadly into two categories, you can bring out that distinction here. For example, "Our results are both theoretical and applied in nature. (two sentences follow, one each on theory and application)"

At a high level what are the differences in what you are doing, and what others have done?

Keep this at a high level, you can refer to a future section where specific details and differences will be given. But it is important for the reader to know at a high level, what is new about this work compared to other work in the area.

A roadmap for the rest of the paper

"The remainder of this paper is structured as follows..." Give the reader a roadmap for the rest of the paper. Avoid redundant phrasing, "In Section 2, In section 3, ... In Section 4, ... " etc.

Test citation [**?**]. and [**?**] or **?**].

This is for **??**, and this is for **??**.

Number: 123. 10, 30, 50 and 70, 10 to 30, 10 m, 30 m and 45 m, and 10 %

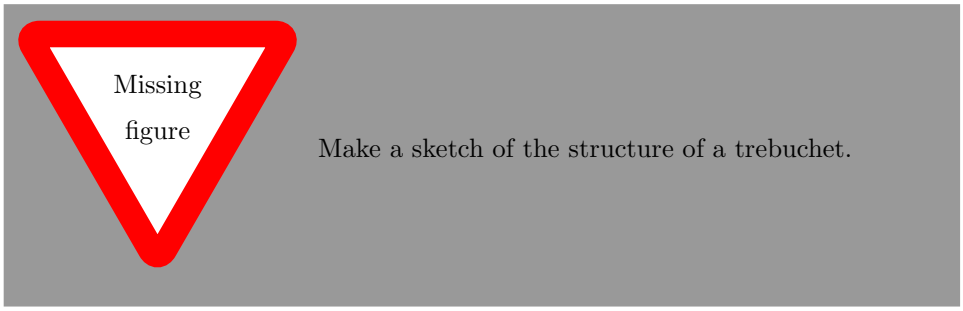
GLi:

A few general tips: Don't spend a lot of time into the introduction telling the reader about what you don't do in the paper. Be clear about what you do do. Does each paragraph have a theme sentence that sets the stage for the entire paragraph? Are the sentences and topics in the paragraph all related to each other?

We have 10 Hz, kg m s^{-1}, the range: 10 Hz to 100 Hz. 1/2.

GLi:

Does each paragraph have a theme sentence that sets the stage for the entire paragraph?



Make a sketch of the structure of a trebuchet.

For **??**, as shown below:

$$a = b \times \sqrt{ab} \tag{1.1}$$

The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz. Pack my box with five dozen liquor jugs. The five boxing wizards jump quickly. Sympathizing would fix Quaker objectives.

$$\bar{x} = \frac{1}{n}\sum_{i=1}^{i=n} x_i = \frac{x_1 + x_2 + \ldots + x_n}{n}$$

Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff. Playing jazz vibe chords quickly excites my wife. A large fawn jumped quickly over white zinc boxes. Exquisite farm wench gives body jolt to prize stinker.

$$\int_0^\infty e^{-\alpha x^2}\mathrm{d}x = \frac{1}{2}\sqrt{\int_{-\infty}^{\infty} e^{-\alpha x^2}\mathrm{d}x}\int_{-\infty}^{\infty} e^{-\alpha y^2}\mathrm{d}y = \frac{1}{2}\sqrt{\frac{\pi}{\alpha}}$$

Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz. Pack my box with five dozen liquor jugs. The five boxing wizards jump quickly.

$$\sum_{k=0}^{\infty} a_0 q^k = \lim_{n\to\infty}\sum_{k=0}^{n} a_0 q^k = \lim_{n\to\infty} a_0\frac{1-q^{n+1}}{1-q} = \frac{a_0}{1-q}$$

Sympathizing would fix Quaker objectives. Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff. Playing jazz vibe chords quickly excites my wife. A large fawn jumped quickly over white zinc boxes.

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-p \pm \sqrt{p^2 - 4q}}{2}$$

Exquisite farm wench gives body jolt to prize stinker. Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz. Pack my box with five dozen liquor jugs.

$$\frac{\partial^2\Phi}{\partial x^2} + \frac{\partial^2\Phi}{\partial y^2} + \frac{\partial^2\Phi}{\partial z^2} = \frac{1}{c^2}\frac{\partial^2\Phi}{\partial t^2}$$

The five boxing wizards jump quickly. Sympathizing would fix Quaker objectives. Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff. Playing jazz vibe chords quickly excites my wife.

Table 1. Precision Comparison on Event Detection Methods

	OR Event Detection	AC Event Detection	TC Event Detection
precision	0.83	0.69	0.46
recall	0.68	0.48	0.36
F-score	0.747	0.57	0.4

2. Preliminaries

A large fawn jumped quickly over white zinc boxes. Exquisite farm wench gives body jolt to prize stinker. Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog. Jackdaws love my big Sphinx of Quartz.

GLi: Gang Li has worked up to here.

3. Method

Pack my box with five dozen liquor jugs. The five boxing wizards jump quickly. Sympathizing would fix Quaker objectives. Many-wived Jack laughs at probes of sex quiz. Turgid saxophones blew over Mick's jazzy quaff.

- First item in a list
- Second item in a list
- Third item in a list

- First item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

(1) First item in a list
(2) Second item in a list
(3) Third item in a list
(4) Fourth item in a list
(5) Fifth item in a list

First: item in a list
Second: item in a list
Third: item in a list
Fourth: item in a list
Fifth: item in a list

QWu: Qiong Wu has worked up to here.

4. Experiment and Analysis

5. Conclusions

Playing jazz vibe chords quickly excites my wife. A large fawn jumped quickly over white zinc boxes. Exquisite farm wench gives body jolt to prize stinker. Jack amazed a few girls by dropping the antique onyx vase! The quick brown fox jumps over the lazy dog.

Acknowledgement

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The authors would like to thank ...

List of Todos

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