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Homework 4 – Pandas Challenge – Heroes of Pymoli

UCI Bootcamp

After analyzing and reviewing the data from Heroes of Pymoli dataset, I realized that there are many observable trends based on the dataset. However, in this report I’m going to focus on three of them.

Gender Demographics: According to our data shown in figure 1, Most of this game’s users are Male who have made a purchase. In fact, there are 484 male players out of 576 total number of players, which means about 84% of users who made a purchase are males. Now let’s look at a total purchase value that each gender has made.

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Figure 1.

Purchasing Analysis (Gender): Now let’s look at how the total number of purchase and total purchase value are distributed. According to figure 2, as we expected, males have made the most purchases and have spend more in total. However, it’s interesting to note that the average purchase price for males are less than females and other genders.

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Figure 2.

Age Demographics and Purchase Analysis (Age): Now let’s analyze the age demographics of this dataset. According to figure 3, this game is more popular among young people. In fact, about 45% of users are in their early 20s. In addition, figure 4 confirms that people who are in their early 20s have the most total purchase value with $1114. Nevertheless, it looks like that people between 35-39 years of age tend to purchase more expensive items. In fact, the average purchase price for this age group is $3.60 which is the highest.

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Figure 3

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Figure 4.

Most popular and profitable items: now let’s determine which items are the most popular and profitable. Figure 5 shows the most popular items, while figure 6 shows the most profitable ones. Both figures are in descending order. It’s clear that “Oathbreaker, Last Hope of the Breaking Storm” is the most popular item in this game. In fact, this item was purchased 12 times which is 3 more than “Nirvana”, “Fiery Glass Crusader” and “Extraction, Quickblade Pf Trembling Hands”. Furthermore, “Oathbreaker, Last Hope of the Breaking Storm” is also the most profitable item with $50.76 total purchase value. “Nirvana” with $44.10 is in the second place.

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Figure 5.

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Figure 6.

In Conclusion, this game is more popular among young male users who are in their early 20s. “Oathbreaker, Last Hope of the Breaking Storm” is the most popular and profitable item in this game.