Feedback for Project Number 10

**What is their topic on?**

Yes, the title is consistent with the topic.

Title: Do IMDb and Metacritic rate popular movies differently?

**Are the objectives of the project clearly identifiable?**

He wants to study if the movie ratings differed between two major movie review websites (IMBD and Metacritic). He uses some different tests to prove his questions. I think the objectives of his project are clearly identifiable.

**What data are used?**

IMDb and Metacritic. Different movies from different years. The same movies come from different websites.

I really like your project and your presentation is very detailed. I learned a lot from your R web scraping codes after watching your video.

Advice:

I want to give you some advice about statistical analysis.

Firstly,

I think you need to do an F-test before the t-test. For example, when you want to test whether the IMDb and Metacritic reviews are significantly different, you assume that the variances are equal because n > 30. However, in terms of your sample variances, var1 = 0.69 and var2 = 2.25, so I doubt that the population variances are equal. Hence, I recommend you do an F-test to judge whether the population variances are equal. Then you can choose what type of t-test you can use.

Secondly,

When you use Fisher’s LSD test, you are wrong to compare the t-test statistic to the F critical value. You should use your absolute value of t-test statistic to compare with the t critical value which follows significance level = 0.05/2=0.025 and degrees of freedom = 1184.