UMD Info Challenge 2023 - IC TEAM # 23057

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UMD Global Classroom Participant Analysis

1. **Research Question:** How does the student diversity (understood as race, ethnicity, gender, college, residency) vary by academic term?

2. **Methodology:**

1. Find trends in UMD and Global Classroom data based on:

- Race/Ethnicity
- Ethnicity
- Gender
- College
- Residency

3. **Programs Used :**

- Microsoft Excel
- RStudio
- Tableau
- Jupyter Notebook
- Microsoft PowerPoint

4. **Abstract:**

UMD Global Classrooms is a virtual learning experience provided by the University of Maryland that can help any individual acquire new skills from anywhere in the world. From east to west, or from north to south, aspiring innovators will be able to learn a variety of knowledge in a virtual setting. Known as one of the most diverse public universities in the nation, The University of Maryland, specifically at College Park, has become an institution that caters to students coming from a variety of distinct backgrounds. As the years go by, UMD's general population has become increasingly diverse, allowing for an almost equal representation of race, ethnicity, gender, college, and residency. But how do UMD College Park's diversity trends compare to trends from UMD Global Classrooms? Using the enrollment data provided by UMD College Park's report system and by the data collected from UMD Global Classrooms, we can determine the diversity trends between the two with data analysis.

To formulate our conclusions, our team used a combination of data analytic tools to answer the research question. With the Global Classroom data we collected from the Info Challenge advising team, we used Microsoft Excel to condense the overall data into one spreadsheet to allow for easier analysis. After condensing the data, we were able to make speculations on how covid has impacted the general student population, as well as discover trends that make the overall data. To make this analysis, our team used RStudio, Jupyter Notebook, and Tableau to determine the reasons behind these trends and possible causes behind them.

With our now-analyzed data, our team was able to formulate answers to the prompted questions and make inferences based on the data. We discovered new trends and information

regarding the Global Classroom datasets, which allowed us to make predictions in the upcoming academic terms.

References

- *Welcome to Global Classrooms*. Global. (1970, March 2). Retrieved March 1, 2023, from https://globalmaryland.umd.edu/content/welcome-global-classrooms
- *reports.umd.edu*. Reports.umd.edu. (n.d.). Retrieved March 1, 2023, from https://reports.umd.edu/.