Research Topic:

What Factors Affect STEM Degree Completion Rates at Public Universities in the United States?

Introduction:

STEM (Science, Technology, Engineering, and Mathematics) degree completion rates at public universities within the United States are influenced by various factors such as socioeconomic background, academic readiness, institutional support, and demographic factors. This literature review, comprehensive in its approach, delves deeper into these areas to provide substantial insights concerning the ease or difficulty of completing such a program.

Literature Review Table

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| **ChatGPT's Resource** | **Fake/Real** | **Relevance** |
| 1. Williams R., et al. (2021). Socioeconomic Barriers to STEM Degree Completion at Public Universities. Journal of Higher Education. | Real | This resource is highly relevant as it examines the impact of socioeconomic status on STEM degree completion. |
| 2. Johnson L., et al. (2019). The Role of High School Preparation in STEM Degree Persistence. Journal of Educational Research. | Real | Relevant, as it explores the correlation between high school preparation and STEM degree completion rates. |
| 3. Smith J., et al. (2020). Institutional Support Systems and STEM Graduation Rates. Research in Higher Education. | Real | Relevant, discussing the impact of institutional support on STEM degree completion. |
| 4. Brown A., et al. (2018). Gender and Racial Disparities in STEM Degree Completion. Journal of Diversity in Higher Education. | Fake | This resource is fake and cannot be assessed for relevance. |
| 5. Davis K., et al. (2021). Challenges Faced by First-Generation Students in STEM Fields. Journal of College Student Retention. | Real | Relevant, focusing on challenges faced by first-generation college students in STEM fields. |
| 6. Patel M., et al. (2020). The Impact of Mentorship on STEM Degree Completion. Journal of STEM Education. | Fake | This resource is fake and cannot be assessed for relevance. |
| 7. Thompson E., et al. (2019). Financial Aid and STEM Student Persistence. Journal of Student Financial Aid. | Real | Relevant, examining the effect of financial aid packages on STEM student persistence. |
| 8. Lewis H., et al. (2018). The Role of Academic Advising in STEM Degree Completion. NACADA Journal. | Real | Relevant, discussing the role of academic advising in STEM degree completion rates. |
| 9. Garcia R., et al. (2020). Undergraduate Research Experience and STEM Retention. CBE—Life Sciences Education. | Fake | This resource is fake and cannot be assessed for relevance. |
| 10. Kim S., et al. (2021). The Influence of Peer Support on STEM Student Success. Journal of College Student Development. | Real | Relevant, exploring how community and peer support networks contribute to higher STEM degree completion rates. |

Summary of Findings:

Number of Sources Verified: 7 out of 10

Number of Relevant Sources: 7 out of 10

Number of Fake Sources: 3 out of 10

Reflection

One of the efficient and broad-scope ways of generating a literature review was through the use of AI. There is still a comprehensive initial draft, which is mainly a time-saving technique, among other key benefits. Nonetheless, some argue that fake references are part of it all and thus recommend careful fact-checking when possible. To ensure that scholars can produce credible academic output, however, one must strike a balance between speed and breadth offered by IA and need to confirm this with human beings.