

Analysis of Student Reflections on Effectiveness of Generative AI

IE4523 Human-Machine Systems

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Number of respondents: 56/60

Number of distinct responses, multiple per person:

- Effective: 115
- Less Effective: 121

- EFFECTIVE/HELPFUL/VALUABLE
 - 67.8% - Helped frame, outline, organize topic – got us started (38/56)
 - 51.7% - Helped us save time in writing the ‘script’, made write-up easier, more efficient, could focus on diving deeper into the topic (29/56)
 - 30.3% - Provided better, new, more articulate ways of saying things, and/or additional key words to use and search on (17/56)
 - 25% - Validated, legitimized, confirmed topic – was really a “thing” in Human-Machine Systems (14/56)
 - Other: Gave us [more] practice using AI, had us think about how to use it, we decided whether to use it -or or how much, helped us arrive at a definition and scope as a team, felt we had freedom

- LESS EFFECTIVE/CONCERNING
 - 60.7% - Affected our creativity, less personal/emotional connection, may have/could have stopped short of ideas, limited our depth, directed our focus one way, we found more ideas with other research (34/56)
 - 53.6% - Words/terms/concepts did not always have the intended meaning, did not match HMS course definitions, did not expand, did not know all the studies, missed research findings, did not address application, kept making same ‘errors’, brought us down a ‘wrong’ path (30/56)
 - 40.1% - Made us think it project would be easier, or take less time – wading through the AI took time as it was not always ‘proven’, didn’t always save time, was more effort to reframe, sometime got caught up trying and retrying (23/56)
 - 21.4% - Did not know how much to apply it (too much, too little?), we had an imbalance on how we used it in our team, team did agree on parts to keep versus ignore (12/56)
 - Other: Was not our own words, felt like “cheating”, record-keeping (prompts and mechanisms) was extra work, it was too easy to start depending on it, felt out of practice to do my own writing