

Research Methods in IT

Week 7 Assessment

"Thematic analysis of interviews"

Assessment Template

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Task 1.

Theme Name	Code Name
1. Risks of Using Generative AI Tools in Academia	1. Need of Critical Thinking
	2. Limited Accuracy Concerns
	3. Need for Critical Thinking Skills
2. Applications of Generative AI Tools in Academia	4. Linguistic Assistance and Grammar Correction
	5. Rapid Information Retrieval
	6. Impact on Critical Thinking Skills
3. Ethical Considerations in Using Generative AI Tools	7. Fact Checking and Responsibility
	8. Potential Unfairness and Intellectual Challenge
	9. Intellectual Property Misuse

Task 2.

Code Name	Code Description
1. Need of Critical Thinking	<p>Description: Emphasizes the importance of critical thinking skills when using generative AI tools</p> <p>1: "Use common sense while using generative AI. It's still in its infancy, so you can't really trust it." - Interviewee 1</p> <p>2: "I think the benefit is that it's quite quick, but then it's also the disadvantage because you don't know if the information is accurate." - Interviewee 2</p> <p>3: "So sometimes if you ask the wrong question, you wouldn't get the right answer. So you have to be mindful of that." - Interviewee 3</p>
2. Limited Accuracy Concerns	<p>Description: Expresses concerns about the accuracy of information generated by generative AI tools.</p> <p>1: "The corpus was last updated in September 2022. So I know for a fact that any fact that is, like,</p>

	<p>if I asked something, a news article or some reason after that date is going to be wrong or just made up." - Interviewee 1</p> <p>2: "The disadvantage is that it can provide you with incorrect information." - Interviewee 2</p> <p>3: "Sometimes if you ask the wrong question, you wouldn't get the right answer. So you have to be mindful of that." - Interviewee 3</p>
3. Need for Critical Thinking Skills	<p>Description: Highlights the need for critical thinking skills when using generative AI tools.</p> <p>1: "Use common sense while using generative AI. It's still in its infancy, so you can't really trust it." - Interviewee 1</p> <p>2: "As for the disadvantages, it can hinder critical thinking skills because you're not really engaging with the material." - Interviewee 2</p> <p>3: "So if you think like, 'oh, okay, fair enough, it sounds all right.' So it has succeeded. Thank you. Thank you. But is it correct? Sounds right and being correct are two different things." - Interviewee 1</p>
4. Linguistic Assistance and Grammar Correction	<p>Description: Represents the use of generative AI tools for linguistic assistance and grammar correction.</p> <p>1: "If I wanted to get a proofreading done, then I use ChatGPT, which is the largest Generative AI out there. That's pretty accurate." - Interviewee 1</p> <p>2: "It's beneficial for checking grammar and spelling. However, it's not very good at complex ideas or topics." - Interviewee 2</p> <p>3: "I do want to read them by myself as well, but sometimes I might want to explore a certain research area, and I wouldn't have all the time in the world to do that. And then I would use Google bard to kind of summarize a few papers in that area to get a summary of it." - Interviewee 3</p>
5. Rapid Information Retrieval	<p>Description: Indicates situations where generative AI tools enable quick retrieval of information.</p> <p>1: "I do that as well. If, let's just say, I'm not too sure about a keyword or a definition, instead of</p>

	<p>Googling it, I can just put it into ChatGPT because it gives you a concise answer at times." - Interviewee 1</p> <p>2: "I think the benefit is that it's quite quick, but then it's also the disadvantage because you don't know if the information is accurate." - Interviewee 2</p> <p>3: "If you put in the right information, then it gives you a proper plan." - Interviewee 1</p>
6.Impact on Critical Thinking Skills	<p>Description: Discusses how using generative AI tools may influence critical thinking skills.</p> <p>1: "As long as it is supported by other learning materials as well, and not just 100 percent relying on that. Relying on ChatGPT's prompts or any other generative AI prompt because, at the end of the day, it feeds you what you want to hear." - Interviewee 1</p> <p>2: "So if you think like, 'oh, okay, fair enough, it sounds all right.' So it has succeeded. Thank you. Thank you. But is it correct? Sounds right and being correct are two different things." - Interviewee 1</p>
7.Fact Checking and Responsibility	<p>Description: Highlights the importance of fact-checking and responsible use of generative AI tools.</p> <p>1: "I do want to read them by myself as well, but sometimes I might want to explore a certain research area, and I wouldn't have all the time in the world to do that. And then I would use Google bard to kind of summarize a few papers in that area to get a summary of it." - Interviewee 3</p> <p>3: "Sometimes if you ask the wrong question, you wouldn't get the right answer. So you have to be mindful of that." - Interviewee 3</p>
8.Potential Unfairness and Intellectual Challenge	<p>Description: Discusses the potential for unfairness and intellectual challenges when using generative AI tools.</p> <p>1: "If a student uses generative AI and does not disclose it, it can be unfair to other students on one hand, and it can also kind of challenge the intellectual capacity of the student as well." - Interviewee 3</p>

	2: "So there is that problem. And then, like most of these generative AI tools gather information from everywhere and sometimes the intellectual property of certain people can be misused in certain situations." - Interviewee 3
9.Intellectual Property Misuse	<p>1: "Like most of these generative AI tools gather information from everywhere and sometimes the intellectual property of certain people can be misused in certain situations." - Interviewee 3</p> <p>2: "So it's kind of prompting people to pay for their subscription. That's there as well." - Interviewee 1</p>

Task 3

Theme Name	Theme Description
1. Risk and Concerns in Using Generative AI Tools in Academia	<p>Description: This topic focuses on the core principles of qualitative analysis, emphasizing why it plays a key role in research. Participants acknowledged the distinction between qualitative and quantitative data and the difficulties associated with accurately measuring complex phenomena. They recognize that qualitative analysis, especially thematic analysis, is a powerful method for understanding complex aspects of research. Furthermore, participants highlighted the contextual dependence of qualitative analysis on its adaptability depending on the research objectives and exploratory requirements.</p> <p>Rationale: This topic encapsulates participants' basic understanding of qualitative analysis, responding to the argument that qualitative and thematic analysis provide valuable tools for exploring multifaceted research questions that cannot be addressed with quantitative data. It highlights their awareness of qualitative analysis as a means of gaining nuanced insights, and their recognition of its adaptability, consistent with the underlying principles of thematic analysis.</p>
2.Applications and Benefits of Generative AI Tools in Academia	<p>Description: This topic explores the diversity of qualitative data analysis methods, highlighting participants' recognition of the multiple methods available to them. Participants confirmed that qualitative analysis included a range of methods, each tailored to the specific research context and objectives. They emphasized the hands-on nature of qualitative analysis and the practice of "analyzing while collecting," emphasizing the iterative and dynamic nature of the process.</p>

	<p>Additionally, participants recognized the availability of software tools designed to facilitate the organization and interpretation of qualitative data.</p> <p>Rationale: This theme encapsulates participants' perceptions of diversity in qualitative analysis, responding to the understanding that qualitative research offers a variety of methods. It reflects participants' understanding of practical aspects of qualitative analysis, including the utilization of software tools. Additionally, participants expressed endorsement of the importance of integrating analysis into the research process, consistent with qualitative research principles.</p>
3.Ethical considerations for using generative AI Tools	<p>Description: In this theme, participants' perceptions move beyond individual experience to delve into the broader ethical and social implications of integrating generative AI tools into academic practice. Rooted in principles of qualitative analysis, this theme is also aligned with broader ethical considerations. It explores subtopics such as responsible use, fairness, intellectual property, and implications for academic integrity. Participant perspectives covered the ethical responsibilities associated with the adoption of generative AI tools, emphasizing the importance of ethical behavior in academic settings.</p> <p>Rationale: Ethical considerations are an important component of qualitative analysis, consistent with Braun and Clarke's thematic analysis approach. This theme reflects participants' awareness of ethical dimensions, emphasizing their awareness of responsible practices and potential social consequences. It deepens understanding of a multidimensional perspective on ethical considerations by exploring participant perspectives on ethical considerations in academia, consistent with qualitative research principles.</p>