Practical Task 7

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Exercise II: Conceptualizing a study design (For quantitative studies)

A: Answers to the following questions will help you to develop your study design (Step II).

**1 Is the design that you propose to adopt to conduct your study cross-sectional,**

**longitudinal, experimental, or comparative in nature? If possible, draw a diagram.**

**depicting the design.**

*My way of study would be cross sectional.*

**2 Why did you select this design?**

*There are a few reasons why I have chosen this.*

1. *Efficiency of the method*
2. *It gives the state of art knowledge of the domain*
3. *Data can be easily analyzed,*
4. *Possibility of wide applicability of the results or implications at the end*

**3 What, in your opinion, are the strengths of this design?**

*The strength of this design is:*

1. *Comprehensive knowledge of state of art systems*
2. *It is a cost effective method*
3. *This can be applied to almost every domains*

**4 What are the weaknesses and limitations of this design?**

**Limitations:**

1. *Its hard to find the comprehensive data with this technique*
2. *The response can be biased*
3. *The time required to can not be predicted*

**5 Who constitutes your study population?**

1. *The developers or researchers who works in the field of study is the study population.*
2. *The users who use the tools implemented in the real world can be the study population too*

**6 Will you be able to identify each respondent in your study population? (a) If yes, how will they be identified?**

*Yes. I will be able to identify each respondent in my study population. The users of the systems is the primary sources of data. The gender, the education they have, the field they work, the way they do interact with, and how often they do the interaction with these real implementations, and several others, factors are there which would be able to help to find the respondents of my study population.*

**7 Do you plan to select a sample? In either case, explain the reasons for your decision.**

*Since the study population is large, the sampling of the population is an important task for me to be done, because of the following reasons.*

1. *The population size is too big, and its not easy to analyze each data one after another since several is there under the same domain.*
2. *Time is limited, so not easy to analyze the whole study population.*

**8 How will you collect data from your respondents (e.g. interview, questionnaire)?**

*Interview is found to be the best method for my study.*

1. **Why did you select this method of data collection?**
2. *Possibility to get in depth knowledge while doing interview.*
3. *More flexible.*
4. *Face to face interview will allow me to get observational data so bias can be identified easily.*
5. *Since the population domain is diverse, interviews would make it easy for data collection that questionnaire.*
6. **What, in your opinion, are its strengths and weaknesses?**

**Strengths:**

1. *Same as stated under 7.a.*

**Weaknesses:**

1. *Time consuming process*
2. *Cost can’t be predicted.*
3. *Data management needed extra attention, otherwise it can end up into wrong data*
4. *Anonymity of the correspondents wont be appreciated with this method*
5. **If you are interviewing, where will the interviews be held?**

*It completely depends on the correspondents’ convenience.*

**(d) If you are using mailed questionnaires:**

*It can also be preferable to do with following concerns.*

1. *The person needs to be aware of how to respond to these quantities with maximum effort.*
2. *The questions should be clear enough and understandable.*
3. *The questions should not be having double meaning.*
4. *The ethical considerations are important to be checked, since it can’t offend the person’s dignity, or anonymity.*

**(i) From where will you obtain the addresses of potential respondents?**

*The database of people’s record from any institutions or organization can be used with their concern. IN this research topic, the people can be from various domains so it would be easy to find.*

**(ii) Are you planning to enclose a self-addressed stamped envelope with the**

**questionnaires?**

*No… I don’t prefer that. The reason would be this. It might not be easy to organize within the time frame, and cost is another factor which I would like to have concerned about.*

**(iii) In the case of a low response rate, will you send a reminder?**

*No.. since the study population is very large, I don’t think so it wont be a problem for me to find the required number of correspondents. So, the higher chances are there to get responses from the users since the users are more interested and curious to talk about what they have experienced.*

**(iv) If there are queries, how should respondents get in touch with you?**

*The contact details would be provided, so they can reach out to me if there is any clarification needed.*

B: Based on the above information, describe your study design. (For further guidance, consult Chapter 8.)

*The study design uses cross sectional study design and the steps involved are as table below,*

|  |  |  |
| --- | --- | --- |
|  | *Steps* | *Involvement* |
| *1* | *Purpose of Study* | *The study need to be carried out here is to find what are the challenged people do face while using NLP based applications* |
| *2* | *Population* | *The population size is big, and it includes people from every domain or every region across earth who interact with NLP based applications or implementations in their real life.* |
| *3* | *Sampling* | *Sampling of data involves taking a certain percentage of people from each domain which feels like important domains and study carry out using those sample population* |
| *4* | *Data Collection Method* | *Interview is the method which is chosen and found convenient since the study population is big.* |
| *5* | *Data analysis* | *The data should be analyzed based on the category in a structured way since interview output is mixed and unorganized.* |
| *6* | *Consideration of Ethics* | *Give appreciation to the participant’s values and their effort. The anonymity should be preserved and ensures in between the parties which respect the privacy of the participant* |