Purpose section of the research proposal

You can use this table for your first version of the research proposal. It will help you to structure your purpose section and focus on the essential elements that will help us to give you feedback.

Research area (150 words[1])	You need to state clearly what **area of research within computer science** you will focus on. Examples can be Agile methods, Digital platforms, Deep learning, Gamification, etc. It is important that you also describe what **sub-area** within the given area you will focus on. For instance, you might want to investigate how agile teams in large organizations organize and coordinate. Or you might want to show how long it takes for a specific deep learning algorithm to learn something useful. In order to motivate and create a context for your area and sub-area, you need to use enough references to research literature (at least 4-5). For instance, you might have 1-2 references that define what agile and agile teams are, how they are composed and how they work, and 3-4 references focusing on the challenges of coordination among agile teams in large organizations.
Practical problem and empirical case (150 words)	To do empirical research, you need to collect and analyze empirical data. Here you need to provide a description of how you will do it, what specific practical problem you will focus on, and how you will study that problem. Some examples: - For agile teams' coordination, you might find an organization that has a lot of agile teams and agree with that organization to study them as your empirical case. - For a deep learning algorithm, you might find an open-source implementation of a relevant algorithm and use a specific data set to test the algorithm. You should have 1-2 references to motivate why you choose the case as you did.
Research question(s) (50 words)	When you do empirical research, your goal is to create empirically validated knowledge that can answer some questions that will help you solve a problem. It is therefore important to compose research questions that are related to and connect your area of research and your practical problem. Examples can be: - For agile teams: How do teams in organization X organize themselves to create complex products together, and what can we learn from X for other organizations? - For deep learning: How well did algorithm X perform compared to algorithm Y, and why? What do my results mean for further development of this type of algorithms?
Contribution (150 words)	Doing research is expensive, and it is important not to repeat the same studies and generate the same knowledge all over. You should therefore show that the research you are planning to do is going to **generate new knowledge**. This is not easy. You need to understand your research very well and read a lot to make sure that you don't miss some relevant research. So, you should show how you **build on existing research** in order to create new knowledge.

[1] Approximate numbers.