A new AI application

|  |  |
| --- | --- |
| Name of the new AI application: |  |
| 1. What **problem** needs solving, or what **need** could be met?  * The application may save time, money, improve health of individuals, help people with a disability, conserve wildlife or the environment. * It may be at home, school, work, on the street, in common places like libraries, in nature, etc. * What activities or tasks occur that are often repeated? * What might benefit from automation? * Does the problem benefit from learning from past data? |  |
| 1. What is the **purpose** of the application?  * Define the goal of the application in positive terms. |  |
| 1. What are the **parts** of the application system?  * Represent the application as a system, including hardware, software, people and procedures. * List all the parts of the system, including the key AI component as a part. |  |
| 1. What are the **connections** in the application system?  * Draw a diagram of the system, showing the listed parts and any connections you can make. | |
|  | |
|  | |
| 1. What data sources does the key **AI component** need to function?  * Does it need to analyse images and data? (computer vision) * Does it need to clump data, categorise and label the data? (classification) * Does it look for trends in data and relationships in that data? (pattern recognition) * Does it need to interpret speech or text? (natural language processing) |  |
| 1. What data or information does the key **AI component** produce?  * Why is it necessary in the system? |  |
| 1. How does the AI component **interact** with the system?  * Identify any feedback loops between the AI component and the other parts of the system. * What keeps the system in a stable state and how is the AI component monitored? |  |
| 1. Identify the **supra system** or connected system.  * Name at least one supra system (a larger system that your application is part of) or another system connected to the application. It might be societal, government, environmental, financial, etc. * List some other parts of the supra system. |  |
| 1. What are the impacts on the **supra system** or connected system?  * What is a likely impact of the application on the supra system or connected system? * What unintended impacts might there be? (Consider time delays.) |  |
| 1. What **ethical** concerns might arise?  * Consider two different viewpoints from people or groups with a connection to the application. * What ethical concerns might they have about the application? * What choices or actions might they make to make the application better or worse? |  |