# **RESEARCH PLAN**

## **ML8 – A TRIPLE OF IMAGE GENERATION TOOLS**

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| **Group name:** Left4Dead  **List of members:**  Nguyễn Thế Thiện - 21127170  Châu Tấn Kiệt – 21127329  Trịnh Minh Long - 21127642 |

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| **Keywords:** image generation, Dall-e, ImageGen, Midjourney, machine learning  **Description:** This research is about 3 image generation tools namely Dall-e, ImageGen and Midjourney: an in-depth analysis on the scientific basis of the ideas, their strengths and weaknesses, best use cases and real-life implementation of the tools.  **List of references:**   * Documentations, tutorials, technical reports, etc. * Source codes, pre-trained models, demonstrative applications, etc. * List of books, papers, or web pages |

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| **Presentation outline**  Complete the following sections with the content of your own topic   1. **Introduction:** an overview of the selected solution (i.e., a tool, a project or a product that provides great helps to Big Data research)  * Which problems could be solved by using this solution? * A brief history: motivations and evolution through years  1. **A deeper insight to the selected solution**    1. Major components and main functionalities: consider what are worth to be presented and support them with demonstrative figures and examples    2. Its applications in academic and/or industry activities    3. Its popularity (i.e., how many users choose this solution)    4. Identify other solutions that have similar functionalities and compare them on different aspects 2. **Demonstration**  * This should be described in detailed as possible. However, you can modify it in the future to meet the actual context. * Anything that could be used to highlight the solution’s main functionalities, rather than being just an installation guide. * The more effort you pay (e.g., interesting story, significant coding, etc.), the higher credit you get.  1. **Discussions and Conclusion** |

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| **Weekly schedule:** what each member has done every week   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | Week 01  (from 18/02 to 24/02) | Week 02  (from…to…) |  | Week n  (from…to…) | | Thiện | Tool research: Dall-e  Research plan fill-in. |  |  |  | | Kiệt | Tool research: Midjourney. |  |  |  | | Long | Tool research: ImageGen. |  |  |  | |

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| **Group self-evaluation:** State the objective and subjective reasons that may affect your performance in completing this research; however, it is not about evaluating the contribution of team members.   * **Advantages:** what benefits your research * **Disadvantages:** any difficulties that you might encounter during research |