**Task 1.**

While watching the video, highlight the basic rules for writing the Methods section:

**1) The type of research you conducted**

**2) How you collected and analyzed your data**

**3) Any tools or materials you used in the research**

**4) Why you chose these methods**

**Task 2.**

Read the Method section of an article from your field of study. Find and copy out the information below. You should attach the link to this article!!!!

<https://www.sciencedirect.com/science/article/pii/S0933365719310437>

**1) what was investigated**

This work aims to provide a review of the existing literature in the field of automated machine learning (AutoML) to help healthcare professionals better utilize machine learning models “off-the-shelf” with limited data science expertise. We also identify the potential opportunities and barriers to using AutoML in healthcare, as well as existing applications of AutoML in healthcare.

**2) which methods were used**

Published papers, accompanied with code, describing work in the field of AutoML from both a computer science perspective or a biomedical informatics perspective were reviewed. We also provide a short summary of a series of AutoML challenges hosted by ChaLearn.

**3) which materials were used**

a search for papers published between 2012 and 2019 discussing the field of automated machine learning (AutoML) in four academic journal databases, including Scopus, Google Scholar, Microsoft Academia, and CrossRef using a set of keywords, in disjunction.

***4) which steps and procedures were undertaken***

***Objective***

***Literature Review***

***Results***

***Discussion***

***Conclusion***

***Automated Feature Engineering***

**Task 3. Write down three methods that you could apply in your research. Use the table below as an example.**

|  |  |  |
| --- | --- | --- |
| Case Study | When studying a specific individual, group, or organization | Collect detailed information through interviews, observations, and document analysis |
| Experimental Research | When investigating cause-and-effect relationships | Design controlled experiments with randomly assigned participants |
| Observational Research | When studying phenomena in natural settings | Observe and record data without intervening or manipulating variables |