The abstract should contain:

(a) Brief context about the problem and the theme,

The topic chosen, medical cannabis, is one of personal and recent social interest. Personally I have a son with a rare genetic condition that has a long list of symptoms. One of those symptoms is neurological seizure activity. Studies have shown that medical cannabis has a positive effect on epileptic/seizure patients. However, Canada has not been in a position to develop and test due to restrictive laws. Recent governmental and media attention have indicated a shift in the social stigma of cannabis and it is my personal hope that Canada’s medical and research communities can soon be open to serious scientific development for medicinal cannabis alternatives to traditional pharmaceutical treatments. The number of strains available is in the tens of thousands, picking a strain that is likely to have an impact will be an impossible task to perform manually. To aid in this initiative, I propose a tool to analyse existing strain, product data, reports and ratings to recommend a list of potential matches. The intended audience for this tool could be the general public or trained professionals, such as researchers or medical staff.

(b) The problem that you are solving (e.g., the research questions or the summary of research questions.);

* What strains of medical marihuana exist?
* What is the ratio of high THC vs High CBD?
* What medical conditions can be helped by medical marihuana use?
* Given a user profile, rating system and medical condition, can a list of strains be recommended for a test subject/user?

(c) The data to be used is available via Open Source API and direct access from the following sources.

* Database of strains, producers, geographic locations and users ratings.
  + <https://developers.cannabisreports.com/docs/the-cannabis-reports-api>
* Study of impact cannabis has on seizure patents
  + <https://www.ncbi.nlm.nih.gov/pubmed/26800377>
  + <https://doi.org/10.1016/j.seizure.2016.01.004>
* Studies of various medical conditions and the rated impact of cannabis on each
  + <https://www.cannabisreports.com/cannabis-studies>
  + <https://www.cannabisreports.com/cannabis-studies/cannabis-for-epilepsy>

(d) The techniques (e.g., classification, recommender system, sentiment analysis, etc.) and the tools that you are proposing to solve it.

I will be applying text classification to format natural language study documents and create a Recommender system to process the link between a hypothetical user or user profile database and the data collecting from Sources and studies based on exiting rating systems.