**Project Title**

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**CSC 723 – Machine Learning for Cyber Security – Project Topic Proposal – Spring 2023**

**Proposal Content**

Please write a single-page draft proposal (at most 2 pages if needed) that describes the project topic and its scope in 500-600 words excluding references. Please describe the methods, tools, and datasets that will be utilized in the project and each team member's contributions.

## Topic

* + The birth and evolution of Machine Learning in Cyber security
    - first iteration of Machine learning in Cyber security was a spam filter for email – evolution from then until now
  + Discuss the early history of machine learning and how it has changed/adapted over time
  + Specific examples of previous and current use cases
    - Current use cases including its relationship with AI, data Mining, IOT, Pattern recognition, and most importantly, Cyber Security

## Methods and Tools

* + Research
    - General Information
      * Course Materials
      * https://dl.acm.org/
      * [www.sciencedirect.com](http://www.sciencedirect.com)
      * scholar.google.com
      * https://ieeexplore.ieee.org/
    - Examples/Code
      * Kaggle
  + Collaboration
    - Github

## Datasets

* + CSC722 – Kaggle Code

## Contributions

* + Contributions by team members will be equal. We are both responsible for:
    - Research
      * Data dumped via github
    - Transfer/Organize data into Outline
      * Together via discord call
    - Write Drafts
      * Sections will be split evenly
    - Review drafts
      * We will each do a review and edit of our draft
    - Final Report
      * We will take the edits and notes and combine them into a final report together
      * The final report will be reviewed by each of us before submitted
    - Presentation
      * We create the PowerPoint together via discord call
      * We will share responsibility video portion