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Project Proposal: Information Retrieval

Below is information on our team.

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For our project proposal, we will be joining the IR Competition as it seems to be the most interesting to all of us and we are interested in gaining experience in state-of-the-art text classification and learning more about information retrieval practices.

Since we chose the IR competition, we are prepared to learn the state of the art IR methods like query expansion, feedback, rank fusion, and learning to rank. Some of our team members have experience in metapy (all), numpy (3 people), pandas (2 people), and sklearn (2 people). Through class and outside research, we have heard and or somewhat worked with VSM, NLP, topic mining, semantic analysis, and text clustering. If need be we could also explore various feedback techniques to help improve the precision and accuracy of our data -- this includes pseudo, implicit, and explicit feedback for which we have learned in class. We will also do some research into state-of-the-art smoothing techniques to increase the accuracy of our selected model.

Regarding our project, the language we have decided to use Python as all four of us have experience with it, and we know that Python has an extensive set of libraries for this task, many of which we have either already used or may choose to use in the future.