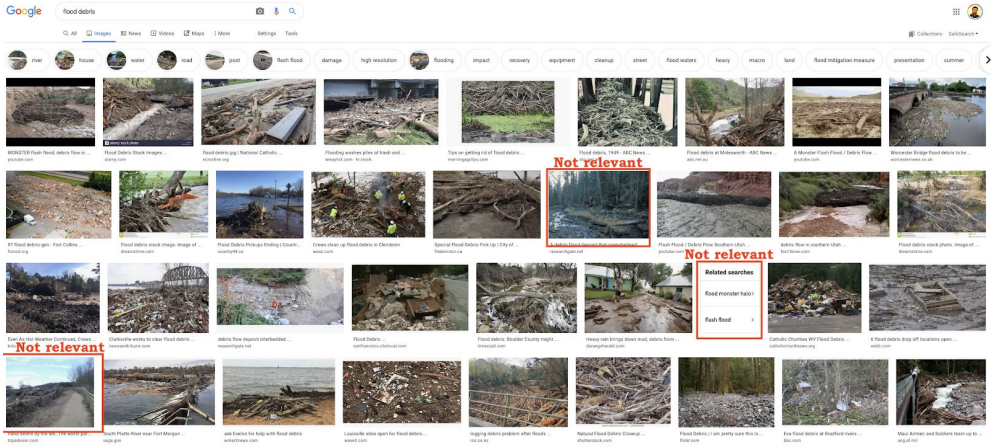
Project Title: Online Image Labeling

Project Description:
Machine learning classifiers need labeled data to learn classification models. Google holds a vast repository of data suitable to learn machine learning classifiers, especially rare use cases such as training a classifier to detect flood debris. However, Google data is not labeled and cannot be used directly. We want to leverage images available on Google to train image classifiers for novel use cases. For this purpose, this project aims to develop a browser plugin to label images on the Google image page after a user issues a query. For instance, in the below screenshot, a query “flood debris” was issued to get images. Using the image labeling plugin, the user should be able to select images relevant to this flood debris and also the ones which are not relevant. After labeling is finished, the user downloads the labeled images and feeds them into the classifier. An additional but optional task will be to add object-level annotations to images.



Duties/Activities:

- Develop a Chrome plugin for image labeling and objection annotation

Required Skills:

- Web application/plugin development
- Javascript

Preferred Intern Academic Level: Any

Learning Opportunities:

- Web application development for a real-world use
- Learning image classifiers

Expected Team Size: 1-2

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