

Webpage Wizard

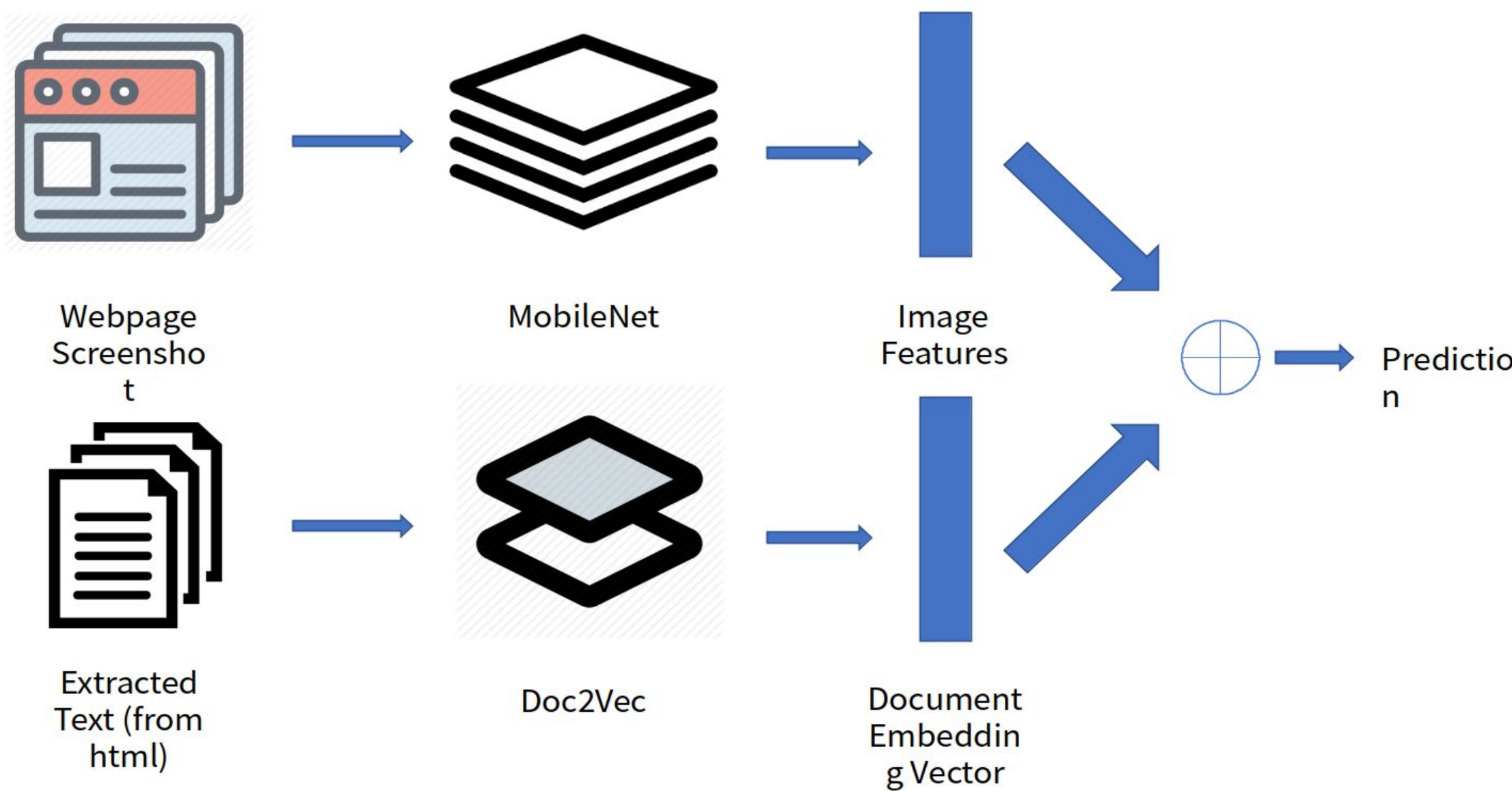
- A Useful Model for Webpage Classification

• Introduction

In the world of machine learning, most of the application domain suffers from not having sufficient labeled data whereas unlabeled data is available cheaply.

In our project, we try to do webpage classification on a dataset that **only a small amount of data is labeled**.

• Pipeline



• Implementation Detail

See github link

<https://github.com/foreseeable/Aelous>

• Applications

1 Our Demo

```
In [54]: def Predict(img_num, img_clf, show_img=True):
file_name = 'render' + str(img_num) + '.png'
this_x = process_train(os.path.join(input_dir, file_name), show_img=show_img)
t1 = np.ndarray([1,224,224,3])
t1[0] = this_x
max_id = np.argmax(img_clf.predict(t1))
print('Predicting category of ' + url[img_num])
print('This render is most likely to be ' + cate[max_id])

Predict(24, img_clf, True)
```

Predicting category of <https://brobible.com/life/article/54952/>
This render is most likely to be article

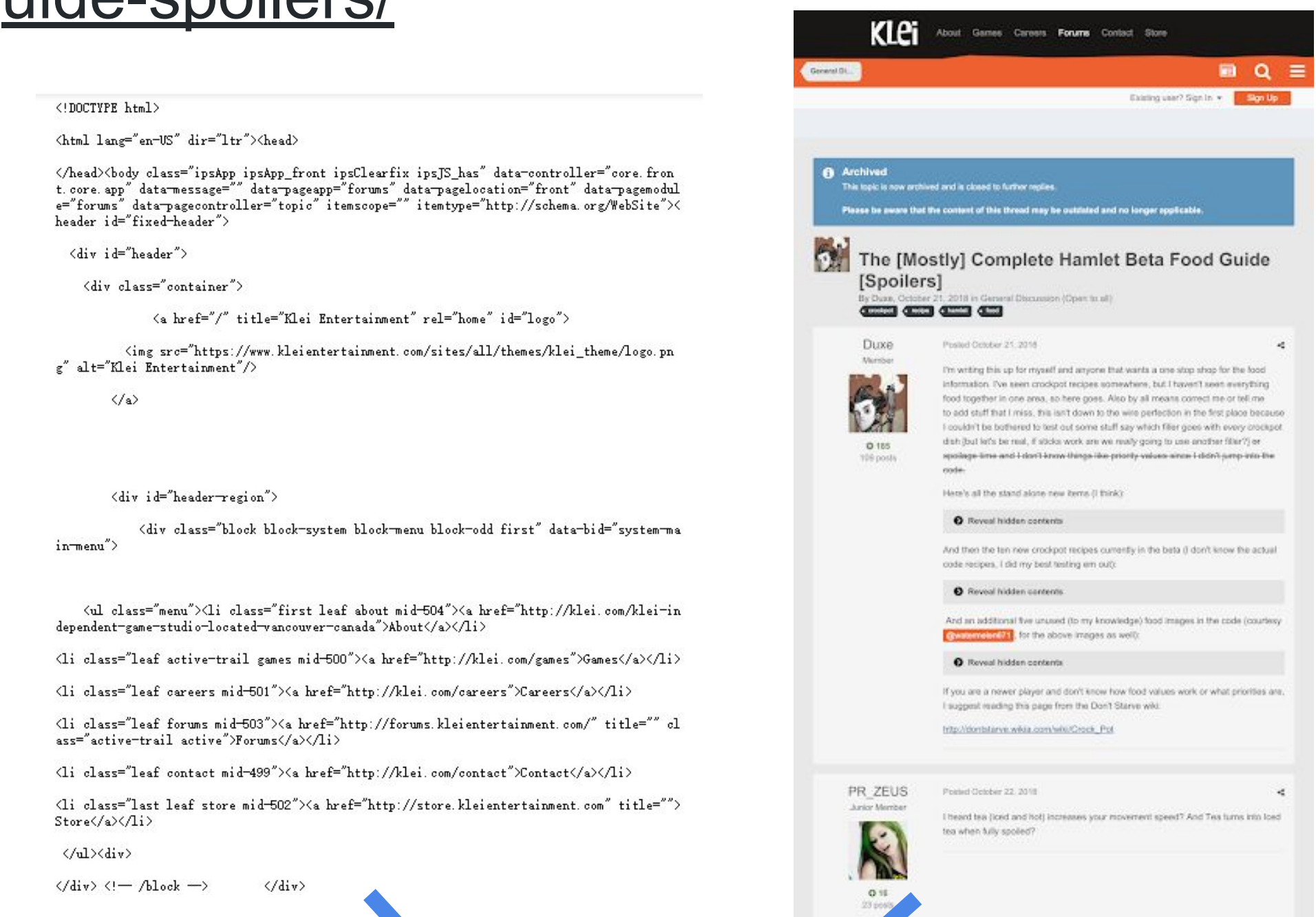
• Dataset:

10K data: url + html + screenshot
2590 with label is_entity
800 with label is_entity & category
10 categories:

- media_introduction
- others
- location
- social_media_profile
- encyclopedia
- qa_forum
- shopping_item
- list
- media_player
- article

example:

<https://forums.kleientertainment.com/forums/topic/97192-the-mostly-complete-hamlet-beta-food-guide-spoilers/>



qa_forum

2 Other Promising Applications

- Assist building an extension for Chrome which can beautify the UI with different strategies according to the category of the webpage. Similar to switch omega.
- Help the browser collecting information about which category the user visits most frequently to decide what ADs to present.

投票区域

