

## Django version of Active/Transfer Learning with Medical Imaging

Bob Horton, Senior Data scientist at Microsoft

Utilize Django to create a web interface to an image labelling system

Start with R/Shiny code by Bob's Active/Transfer Learning team last year

Transfer and Active Learning applied to Medical imaging

If possible, extend:

- \* make it a more general labeling tool (e.g., support bounding boxes, maybe arbitrary shapes for semantic segmentation)
- \* design it so we can swap in more sophisticated (or specialized) example selection approaches
- \* support multiple labels (so we can experiment with multi-task classifiers for learning interpretable representations).

### Project weekly report

#### Week 1:

Maggie :

1. Installed Django
2. Go through some tutorials and documentation
3. Set up the next group meeting time
4. Waiting for Bob's respond

Ramya:

1. Designed the basic prospectus of the project

Nick:

- Installed and configured Django
- Went through Django Tutorial: <https://www.djangoproject.com/>
- Set up a basic website

#### Week 2:

Nick

- Began looking over previous's groups app that we'll be replicating: <https://github.com/tylerlams/ActiveLearningApp>
- Begin looking over open source labeling tools per Bob's recommendation

Maggie

1. Begin looking over materials from Bob's recommendation
2. Begin looking over previous code