ClaVis Survey Results

These are the results of our survey amongst students in a machine learning course, as discussed in our conclusion section.

Multiple Choice Answers

Table 1: How would you rate your current knowledge?

Domain	None	Beginner	Intermediate	Advanced	Expert
Machine learning, deep learning and classification	0	4	5	7	0
Visualization and visual analytics	0	1	9	5	0

Table 2: System Rating

Question	Very easy	Easy	Medium	Difficult	Very difficult
How easy do think it is to understand the visualizations?	2	7	7	0	0
How easy do think it is to use the tool?	3	5	5	2	0

Table 3: Would you like to use the tool yourself? For what? (Multiple choice)

Use case	N. of participants
Comparing different classifier architectures / methods	14
Parameter tuning, finding the best classifier for a problem	13
Creating images for presentations	13
Comparing own classifiers to existing ones / competitors	12
Analyzing own classifiers / debugging	8
I would not use it	0
Other	0

Free text answers for features and improvements

- Smoothing for the history graphs, like in TensorBoard (from 2 participants, we added this)
- Extensions for reinforcement learning and domains were there is no static dataset
- Comparison of different feature extractions
- Feature visualization, e.g. highly correlated weights
- Visualize word embeddings of classifiers similar to the data view
- Add option to align bars in ranking to the left for better readability (we added this)
- Show the training hardware for each model to make sure they were trained under fair conditions
- The tool is powerful and has a steep learning curve, therefore the included help view is useful. I need a similar documentation for the plugin API (we added a tutorial)