Our Approach

Our goal was to make the application open source, and more intuitive and educational for students. In our application, students are led step by step through a multi-screen demo, with different tools to interact with to learn and understand how neural network training works.

Evaluation and Results

For our evaluation, we ran informal user studies with 5 undergraduate computer science students who had some background in neural networks and principal component analysis. We asked them to:

❖ Complete the entire demo
❖ Verbalize thoughts at each step
❖ Give feedback about the content and design

Based on their feedback, we made the following improvements:

❖ Appearance/location of components
❖ Additional descriptions and visuals
❖ Intuitive flow between screens
❖ Clarity of information presented/use of components

Through these studies, we discovered ways of improving our design to meet our design goals. We plan to pilot test the demonstration as a learning tool this coming Fall 2016.

Literature Cited


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