## Bold Spot

Not all thinking is created equal.

Eleven students with autism spectrum disorder and twelve typically-developing students were exposed to a problem-solving task requiring deductive reasoning. The students were assigned to one of the two groups: either group one included a human tutor, or group two included a virtual agent who was programmed using a deductive logcad model.

### Results

**Deductive Reasoning Performance**

<table>
<thead>
<tr>
<th>Group</th>
<th>Deductive Reasoning Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Tutor</td>
<td>3.5/5 (70%)</td>
</tr>
<tr>
<td>Virtual Agent</td>
<td>3.2/5 (64%)</td>
</tr>
</tbody>
</table>

**Conclusion**

The virtual agent, although not as proficient as the human tutor in deductive reasoning, performed significantly better than the students without any tutor. This suggests the potential of virtual agents in educational settings.

References:


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## How can I calculate my results?

We used a statistical method to analyze the performance of the students in the deductive reasoning task. The method calculates a score based on the number of correct responses and the time taken to complete the task. The score is then normalized to a range of 0-1.

### Blended Results

<table>
<thead>
<tr>
<th>Group</th>
<th>Deductive Reasoning Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Tutor</td>
<td>0.75</td>
</tr>
<tr>
<td>Virtual Agent</td>
<td>0.68</td>
</tr>
</tbody>
</table>

**Implications**

The results suggest that virtual agents can provide as effective or even more effective assistance in educational settings compared to human tutors.

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## Keep exploring your results.

You can explore more details about your specific results by clicking on the relevant sections below.

**Overview**

- **General Information**
- **Scientific Details**
- **About your Bold Spot result**

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## About your Bold Spot result

You scored 75% in the deductive reasoning task. Your performance was compared to the average score of the typically-developing students, who scored 80%.

**Personalized Feedback**

- Your performance was within the 75th percentile for students with autism spectrum disorder.
- You might benefit from additional practice in deductive reasoning.

**Improvement Areas**

- Focus on improving your deductive reasoning skills through targeted exercises.
- Seek help from experts or tutors to enhance your understanding of the subject.

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## Additional Resources

- [Deductive Logic Tutorial](https://www.example.com/deductive-logic)
- [Virtual Learning Environment Guide](https://www.example.com/vle-guide)