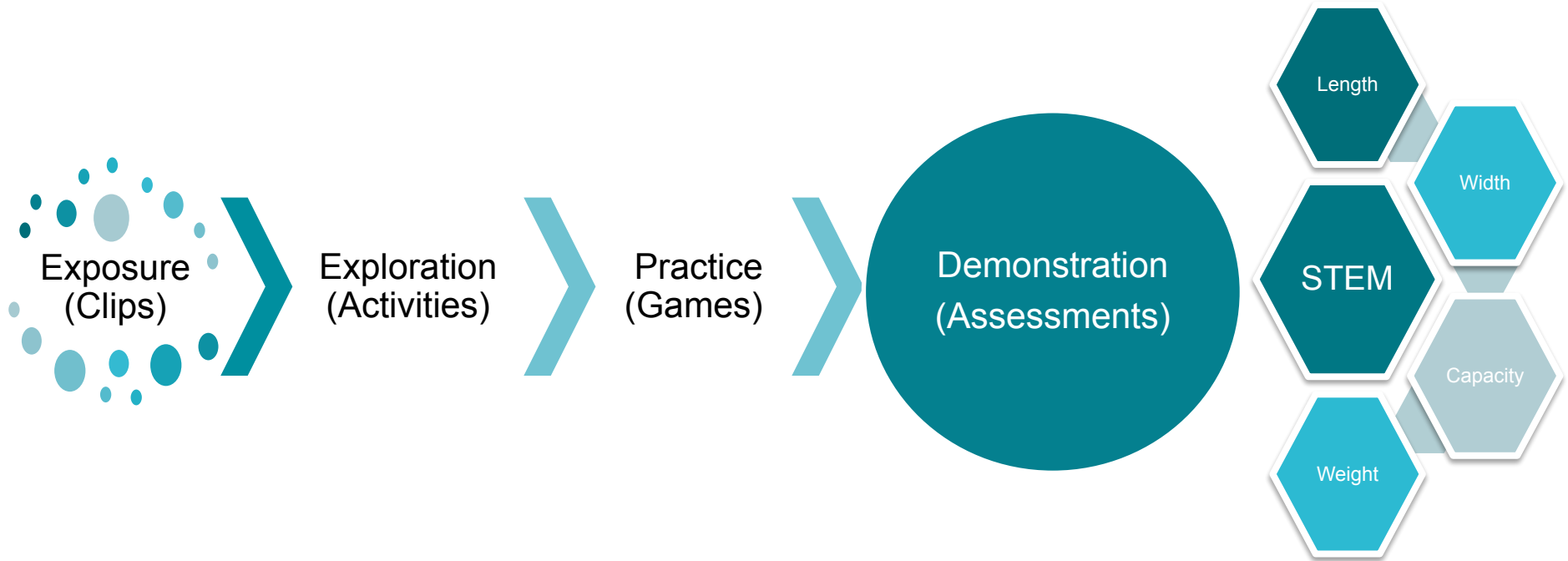




PBS KIDS Measure UP!

Jalal Kiani and Nasrin Khansari

Illuminate Learning. Ignite Possibilities!



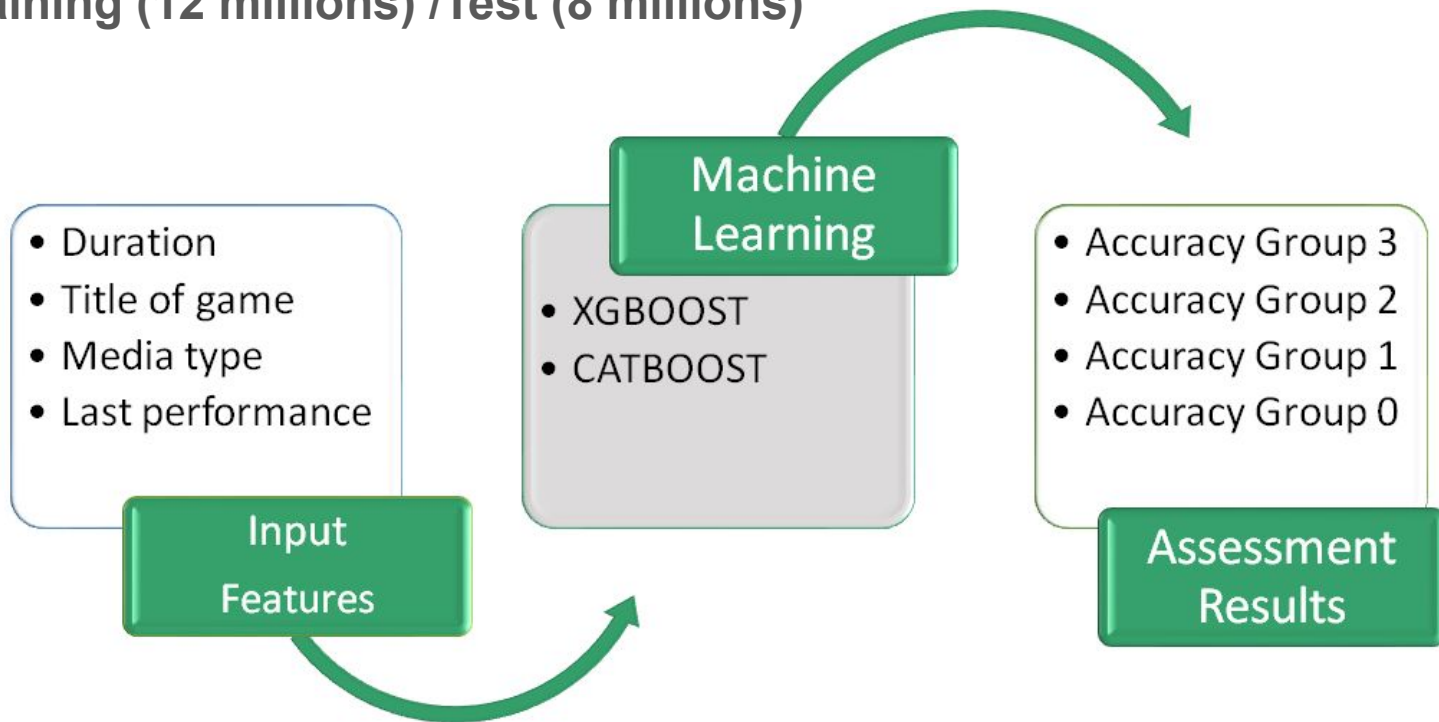
Methodology

- Use machine learning tools to create an algorithm that helps identify factors that measure how young children acquire and grow their foundational knowledge during game play

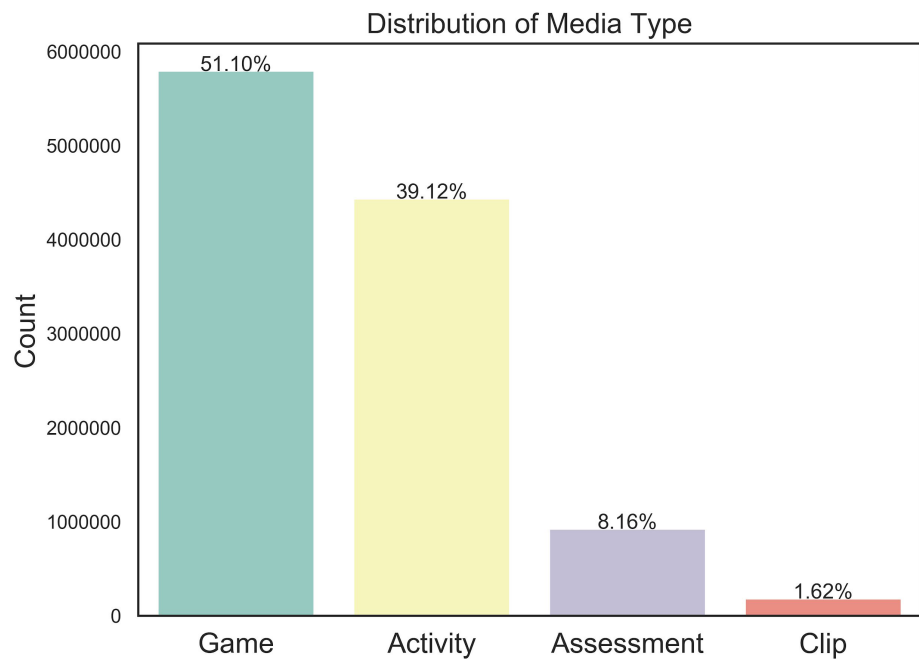
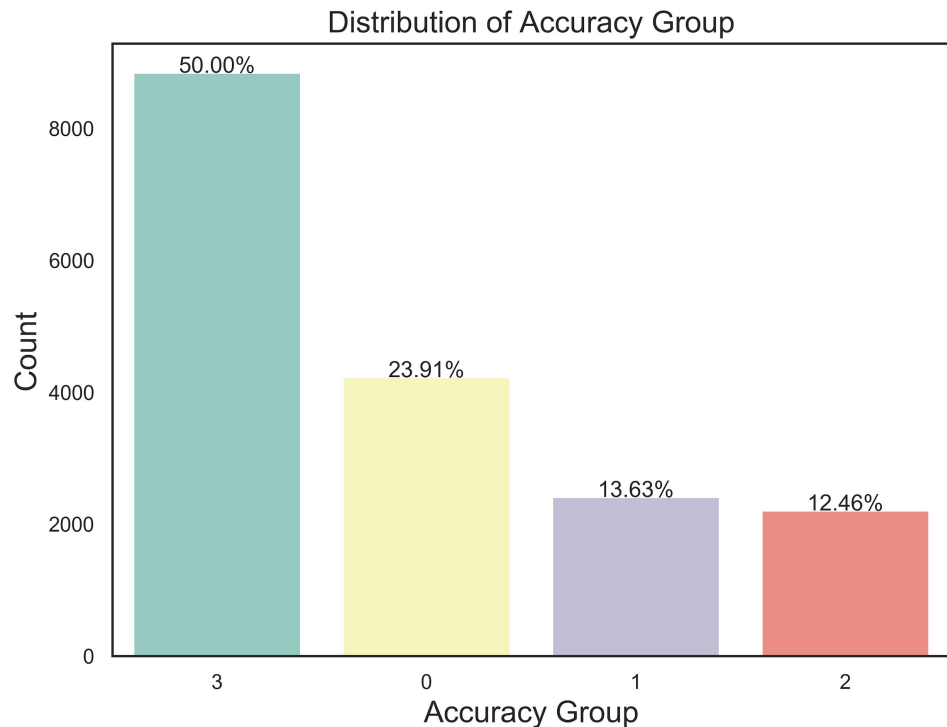


Use gameplay data, including knowledge of videos watched and games played, from the PBS KIDS Measure Up!

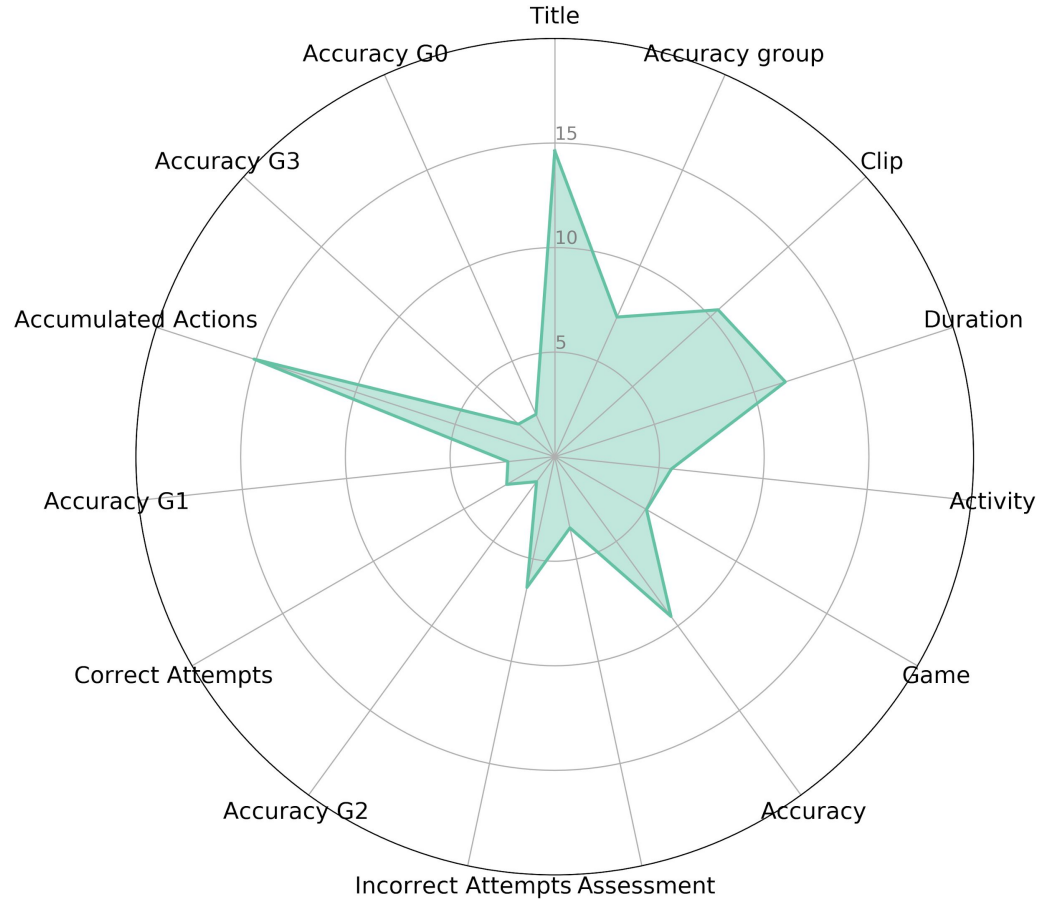
- Training (12 millions) /Test (8 millions)



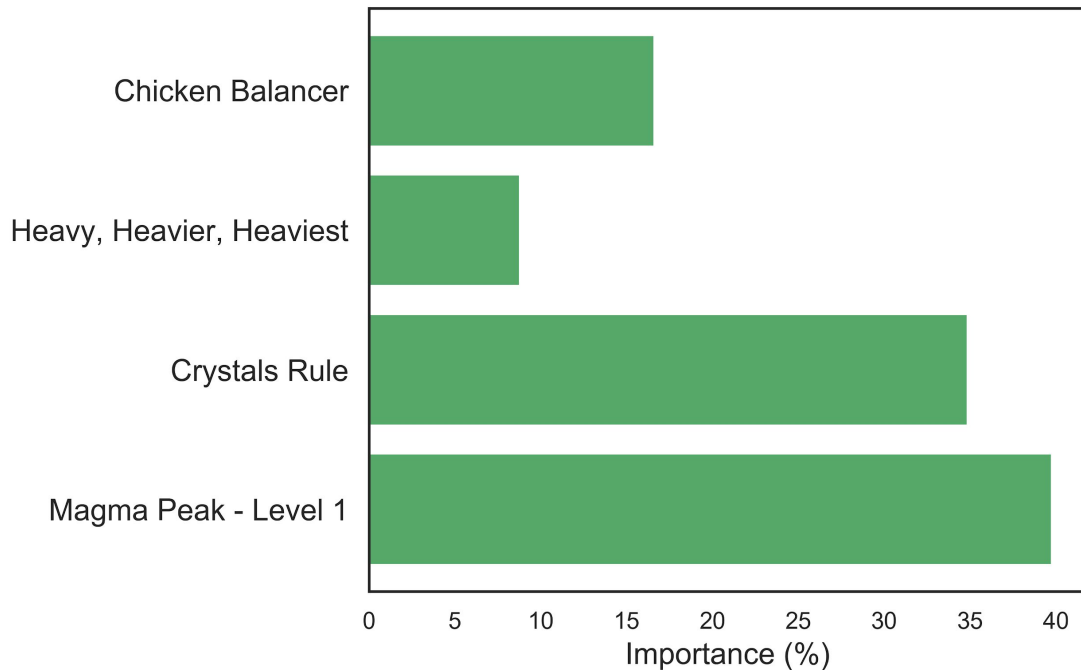
Distribution of accuracy group and type of media



Most important factors



The most effective games/videos



Results

- Developed a model to predict scores on in-game assessments
- Found the most important factors improving kid's skills.

Next Steps

- Add more background information/features (e.g., the parents' environment)
- Getting parents to prioritize the App and engage with the tool