PrepSmart

(The ultimate system to improve test scores)

Test takers after every competitive exam?

How do I rank amongst my peers ?

Where am I doing well/ where do I need to improve

How can I improve my score?

How PrepSmart addresses their concerns?

Compares their performance with peers

- Similar test takers are clustered based on scores and the clusters are ranked by performance. Migration of user between the clusters is tracked

In-depth Analytics at subject level

- Provides detailed analysis of scores at a subject level
- Identifies strengths/ weaknesses of the test takers
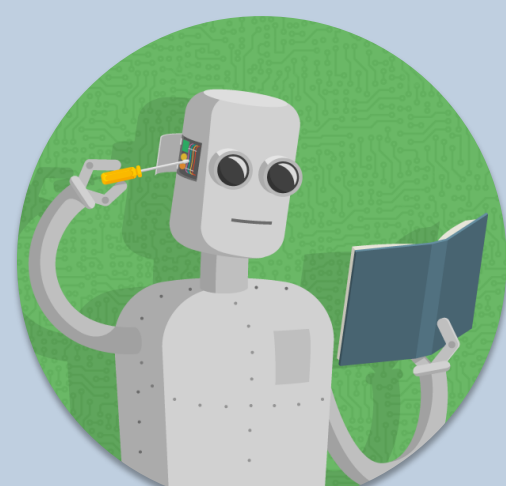
Provides personalized recommendations

- Recommends features of similar test takers, who have improved their scores

How PrepSmart is built ?

Data Collection (MySQL)
- Data Exploration
- Data Cleansing
- Feature Selection

Modeling (Machine Learning)
- Transformation
- Normalization
- Clustering (K – Means)

Analytics
- Rank Clusters
- Identify similar test takers who have improved (KNN)
- Build user story
- Generate recommendations

Adithya Kumar, Ijaz Ahamed, Sriharsha Garuda

Information School UNIVERSITY of WASHINGTON