How PrepSmart addresses their concerns?

- **Compared to 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

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