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## ABAG KMDet PROGRESS REPORT

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What we have done?

1. We selected an appropriate dataset to detect driver behavior.
2. Afterward, we processed the data and enhanced it to perform better on real drive data.
3. We built 2 Machine Learning models which are K-Means and Decision Tree Classifier.
4. Using the Unsupervised K-Means technique, we clustered the data set that we had processed in the previous stages, divided it into classes, and created a new data set with its labels.
5. Using this newly created data set, we determine which class the drivers belong to with the Decision Tree Classifiers Model, which is supervised learning.
6. We created RESTful API services and prepared our end-points to open our developed algorithms and analyses to the outside world.
7. A table design was made on Apache Cassandra to work on constantly flowing data and to work on old data.

What we will do?

1. Training will be given to ensure that the method we have developed is understood within the whole group. It is being done now :)
2. Tables will be created in Apache Cassandra in accordance with the table designs made. (Now to 02/03/2022)
3. Technical contracts will be prepared and shared with the visualization team to provide more effective results on the map. (Now to 02/03/2022)
4. A final report will be prepared. (05/03/2022 to 10/03/2022)