

## Project Description

Dataset for the project is attached along with the description. Supporting files are also attached. Details of the dataset can be found in the attached presentation.

Answer the following questions:

- 1) Accelerometer sensor when reading augmented with Gyro sensor data has a better chance of detecting the road condition.
- 2) Which accelerometer readings better explain the road conditions.
- 3) Experimental data is showing mostly bad road conditions at high speed. Verify this claim.
- 4) Time of the recording is closely correlated with the road condition.
- 5) From all the given sensor values pick the best 5 that you think predict the road condition the best.

- For each question you need to submit R code with your justifications of the steps embedded in it as comments.
- Please note while answering the above questions you may need to perform multiple steps.
- Please take care of all the dos and don'ts mentioned in the class while answering the questions. Make sure to include them in the notebook for maximum reward.