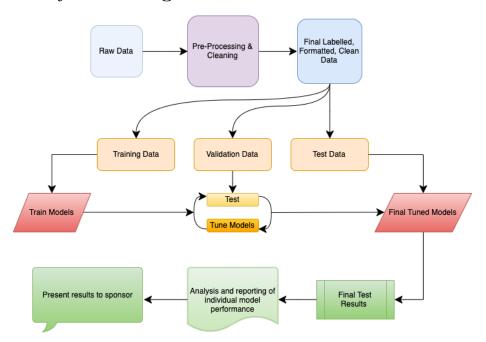
System Design

Northrop Grumman Team

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1 System Design



1. Data Pre-processing Phase

The first level of the diagram shows the process of taking the raw data and putting it into the format necessary to feed into the different Classification Networks. We need to download and get the labels for each video in the dataset. We will also make sure we have a balanced number of examples for each class.

2. Model Training and Tuning

The second level of the system involves training the different models on the dataset. This stage will include modifying the models to include time dependency so as to satisfy the project requirements. We will need to test and tune the models several times to fine tune our classifications.

3. Results Analysis

The final level of the diagram is analysis and visualization of the results. We will need to make in depth comparisons between the performance of each of our models, as well as the speed of the models....