Idea/Approach Details

Technology Bucket: Miscellaneous Category: Software

Company Name : Bridgestone Problem Code : SV2

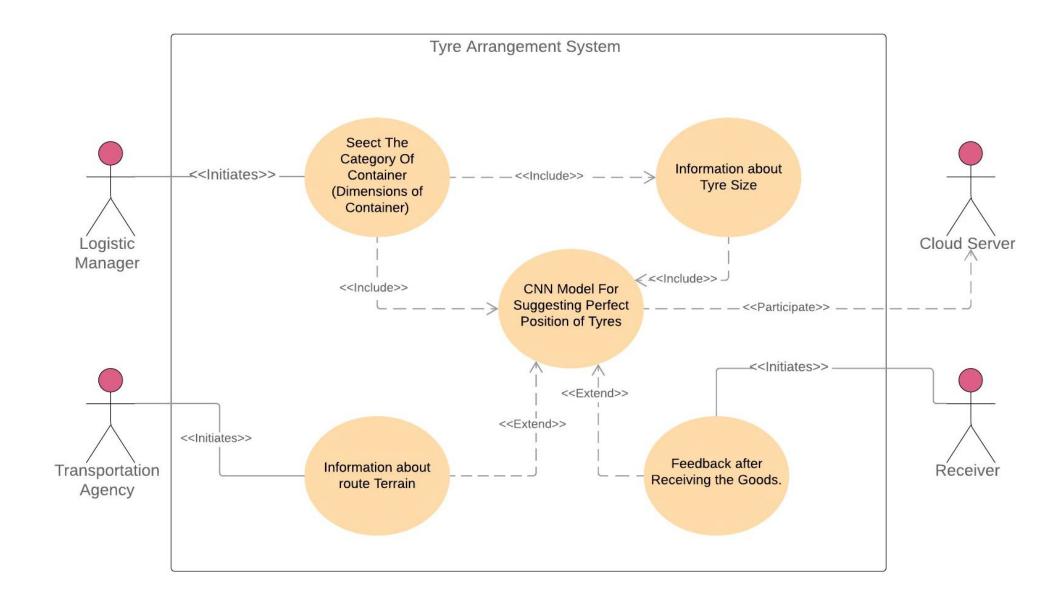
Team Leader Name: Shrey Jasuja College Code: U-0841

Solution Proposed:

To Solve the given Problem, we propose the following model:

- Having obtained the previous data about the requirements, and having the previously
 experienced data about the requirements, previous losses till date, available containers,
 container shapes, and container sizes specifically, we shall train our data on the lines of what
 has to be done, when any new data comes in, newer requirements come in, etc.
- The first hand information about the terrain gives us a specially stress free transportation of the tyres, such that, the amount of buffers that have to be left in the containers, the stability of the tyre lattice structures, etc. which also shall be the input to the model of prediction.
- The feedback from the receiving party shall also be fed directly to the system, which shall be centralized and hence, not only the setting, but the retrieval of the tyres from the containers is easier.
- The predictions and assertions, the reinforcements, etc. which form the output of the algorithm, shall be uploaded to the cloud, which is the next step to the automation.

Use Case Diagram



Technology Stack

- Python and its libraries:
 - Keras
 - Scikit Learn
 - NumPy, Pandas, Matplotlib
 - TensorFlow
 - Django

Dependencies / Show Stopper

- Database of size of tyres and dimensions of container.
- The first hand data about the road / medium getting to the target place
- Previous cost estimates for the target place.
- The average, over and under utilization of place, if ever documented