

The following changes are required

1. Debug the model  
Resolve the error in the code that has been sent before. Give the plots for the 6 material properties  $y$  true vs  $y$  predicted and 6 plots for error in each property using this model
2. <https://github.com/txie-93/cgcnn> desired CGCNN model  
<https://pypi.org/project/crysnnet/> library that helps to customize our dataset to standard dataset form on which CGCNN is originally implemented
  - Convert our dataset (node features in our dataset are atom features in their dataset and edge features in our dataset are bond features in their dataset) into their dataset form
  - Implement CGCNN on our dataset

Report-

1. Accuracies/errors of the model in predicting the given properties.
2. Function that takes input of nodal positions, bar connectivity,  $a, b, c, \alpha, \beta, \gamma$  as input and predicts the properties  $C_x, C_y, C_z$  and  $n_x, n_y, n_z$  with the accuracy more than 90 percent.
3. Plot of  $Y$  predicted vs  $Y$  true for 6 properties
4. Error plot
5. Summary/ documentation of the model