**Learning Project – Otto Classification(Kaggle competition)**

**How to run:**

Attached is the python(.py) file . It can be run from any Python IDE like syder, Anaconda jupyter notebook or by following command from command promt.

Python AAI.py

You might need to install sklearn, numpy and pandas libraries.

Output:

The file would produce a CSV file named “finalLR” (you will need to change the path in the file to the local system path).

**Algorithms used:**

* Feature engineering --- RFE and chi2. – it did not improve the scores(data works best on with original features)
* **Classification algorithms –** Decision Tree, SVM, Logistic regression, K nearest neighbor.
* **Ensembler methods –** random forest, ADA boosting, Gradient boosting.
* The final result is with Logistic Regression – it gives the best score on Kaggle.