



Projects for Machine Learning

Datasets: Choose any one of **ONE** of the datasets attached in LMS. The deadline for the project is **31st May**. Submit your ipython notebook(.ipynb) to **dssupport@upxacademy.com**.

Evaluation Markers.

1. Illustrate data Loading using Pandas.
2. Identify unique business problems and provide appropriate visualizations using plotly express and seaborn.
 - a. Data cleaning
 - b. Data understanding
 - c. Data visualization using at least five unique charts
3. Create a scikit-learn pipeline for data modelling.
 - a. Data Sampling
 - b. Feature Engineering
 - c. Feature Importance
4. Build various models and finally build a stacked model.
 - a. Evaluate metric of each model and compare with other models
 - b. Hyperparameter tuning
5. Choose the best model using appropriate evaluation metrics.
6. Perform model explainability using SHAP, LIME and Eli5