**PRCP- 1001- RiceLeaf disease detection**

**Problem Statement**

Task 1:-Prepare a complete data analysis report on the given data.

Task 2:-Create a model which can classify the three major attacking diseases of rice plants like leaf blast, bacterial blight and brown spot.

Task3:- Analyze various techniques like Data Augmentation, etc and create a report on that.

**Dataset Link:**

This dataset contains **120 jpg** images of disease-infected rice leaves. The images are grouped into 3 classes based on the type of disease. There are 40 images in each class.

Classes.

* Leaf smut
* Brown spot
* Bacterial leaf blight

Link : <https://d3ilbtxij3aepc.cloudfront.net/projects/CDS-Capstone-Projects/PRCP-1001-RiceLeaf.zip>

**Model Comparison Report**

Create a report stating the performance of multiple models on this data and suggest the best model for production.

**Report on Challenges faced**

Create a report which should include challenges you faced on data and what technique used with proper reason.

Note:-All above tasks have to be done on a single jupyter notebook and share the same for final submission of the project.