**PRCP-1027-Skin Disorder**

**Problem Statement**

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

**Task 2** :- Create a predictive model using machine learning techniques to predict the various classes of skin disease.

**Task3** :- Suggestions to the Doctors to identify the skin diseases of the patient at the earliest.

**Dataset Information:**

This database contains 34 attributes, 33 of which are linear valued and one of them is nominal.The differential diagnosis of erythemato-squamous diseases is a real problem in dermatology. They all share the clinical features of erythema and scaling, with very little differences. The diseases in this group are psoriasis, seboreic dermatitis, lichen planus, pityriasis rosea, cronic dermatitis, and pityriasis rubra pilaris. Usually a biopsy is necessary for the diagnosis but unfortunately these diseases share many histopathological features as well. Another difficulty for the differential diagnosis is that a disease may show the features of another disease at the beginning stage and may have the characteristic features at the following stages. Patients were first evaluated clinically with 12 features. Afterwards, skin samples were taken for the evaluation of 22 histopathological features. The values of the histopathological features are determined by an analysis of the samples under a microscope.In the dataset constructed for this domain, the family history feature has the value 1 if any of these diseases has been observed in the family, and 0 otherwise. The age feature simply represents the age of the patient. Every other feature (clinical and histopathological) was given a degree in the range of 0 to 3. Here, 0 indicates that the feature was not present, 3 indicates the largest amount possible, and 1, 2 indicate the relative intermediate values.The names and id numbers of the patients were recently removed from the database.