Capstone Project for Crop Recommendation Final report

- 1.Dataset Name Crop_recommendation from Kaggle as csv file
- 2.In this dataset input -N(Nitrogen),P(phosphorous),K(Potassium),temperature,humidity,ph,rainfall Output-label
- 3.in this data output has categorical data, so we go to ML Classification Analysis
- 4.Temperature, humidity, ph has high VIF correlation value . so we avoide multicollinearity we take only N, P, K, rainfall.
- 5.In Feature selection chai's value for classification RandomForest has 0.990909

6. In RFE value for Random forest has 0.989091

7. According to features election, I select Random Forest Classification Model as final model

And get the accuracy value is 0.930303

8. Due to this above accuracy 0.930303 I did GridSearchCV ConfusionMatrix

Through Heatmap get Accuracy 93.03%

- 9. From univariate analysis I submitted without outliers descriptive column
- 10.In Bivariate analysis I submitted pairplot using seaborn library
- 11.I finalized the model and save the model.
- 12. Finally Deployment is done and predict the output and call to action

I submitted all related ipython Notebook files in gitup







