

## **Assignment : 5**

-> Send Your face detection sample video.

Q1)

Dataset : 50\_Startups.csv

Task : Build A Predictive Model And Conclude If All Predictors (Independent Variables) Are Significant For Profit.

Q2)

Dataset : iq\_size.csv

Task : Build A Predictive Model And Conclude If All Predictors (Independent Variables) Are Significant For IQ.

Q3)

Dataset : PastHires.csv

Task : Here, we are building a decision tree to check if a person is hired or not based on certain predictors.

So, use any technique to map Y,N to 1,0 and levels of education to some scale of 0-2.

Build and perform a Decision tree based on the predictors and see how accurate your prediction is for a being hired.

Now use a random forest of 10 decision trees to predict employment of specific candidate profiles:

Predict employment of a currently employed 10-year veteran, previous employers 4, went to top-tier school, having Bachelor's Degree without Internship.

Predict employment of an unemployed 10-year veteran, ,previous employers 4, didn't go to any top-tier school, having Master's Degree with Internship.