**Sketch the Diagram**

**Data Exploration**

* Load the Dataset in from the Kaggle website
* Put the Correct Columns in for the Data

**Data Preprocessing**

* Encode the Data
* Fit the Data
* Check for Null values
* Explain why Normalization does not have to be done

**Split Data into training and testing sets**

* Separate the Independent Variable from the Dependent Variable
* Split the Dataset into training and testing sets

**Decision Tree Algorithm**

* Explain the Decision Tree Algorithm and the mathematical foundations of it
* Run the Model using the Criterion gini index
* Predict the Model
* Test the accuracy of the model
* Check for overfitting and Underfitting
* Graph the Decision Tree
* Run all this again but this time with the Criterion entropy

**K Nearest Neighbors Algorithm**

* We can use the same training and testing datasets from above and everything has already been preprocessed for us.
* Choose a random value for K and run the Model
* Run the Model again inside a for loop to find the optimal K value
* Plot the accuracy of the different K values
* Print the K value with best accuracy

**Conclusion**

* Produce the Conclusion of the different Models