Rough Breakdown / Timeline - 4 weeks

Introduction:

- Formulate introduction in Markdown cells WRITE
 - provide some relevant background information on the topic so that someone unfamiliar with it will be prepared to understand the rest of your report
 - clearly state the question you tried to answer with your project
 - identify and describe the dataset that was used to answer the question

Methods and Results:

- ** describe in written English the methods you used to perform your analysis from beginning to end that narrates the code
 - Clean data and Wrangle data CODE
 - Select columns intended for use CODE
 - Visualize scatter plot with Age vs. Debt on axes and Approval status as colour CODE
 - Predictive question: which has more effect on approval status
 - Propose a new unknown point Age and Debt values CODE
 - Create a KNN model CODE
 - Evaluate Model CODE
 - Split data into training and testing data subsets
 - · Build the KNN model using training data
 - Choose candidate values of K
 - Split training data into two sets training and validation
 - For each K train the model using training set
 - Evaluate accuracy for each using validation set (cross-validation)
 - Pick the K value that maximizes validation accuracy
 - Test random data CODE

Discussion

- Describe findings, how it relates to prediction, what influence does Age vs. Debt ultimately have on approval status based on the model's behaviour WRITE
 - summarize what you found WRITE
 - discuss whether this is what you expected to find? WRITE
 - discuss what impact could such findings have? WRITE
 - Considering a given age group, one should aim to have a target level of debt - if any at all, based on the data WRITE
 - discuss what future questions could this lead to? WRITE
 - Varieties of Debt
 - Parental Financial Support? Wealth Background?

References

- List References WRITE
 - At least 2 citations of literature relevant to the project (format is your choice, just be consistent across the references).
 - Make sure to cite the source of your data as well.