CS 6923 Machine Learning
Spring 2019
Final Project Report

Name:
NetID:

Name:
NetID:

PART I: Preprocessing (No more than two pages for this part)

1. **How does your program handle missing value? And why?**
- *Please use bullet points*

2. **If your program converts numeric features to categorical features, or categorical features to numeric features. Describe how it does it.**
- *Please use bullet points*

3. **Describe any feature selection, combination or creation, and any feature values combination performed by your program and the reasons for doing so.**

- *Please use bullet points*

4. **Describe other preprocessing used in your program(e.g. centralizing, normalization)**

- *Please use bullet points*

PART II: Classification (No more than two pages for each model in this part)

Model One:

1. **Supervised learning method used in this model is**

   _____

2. **Why you choose this supervised learning method?**

- *Please use bullet points*

3. **Describe the method you used to evaluate this method.**

- *Please use bullet points*

4. **Describe process of experimenting different parameter settings or associated techniques.**

○ Parameter name:
  - Parameter values:
  - Performance of different values:
    - *Please use bullet points*
  - Analysis:
    - *Please use bullet points*

○ Parameter name:
  - Parameter values:
  - Performance of different values:
    - *Please use bullet points*
  - Analysis:
    - *Please use bullet points*

5. **Accuracy and Confusion matrix with most suitable parameters**

		Predicted	
		YES	NO
Correct	YES		
	NO		

Accuracy: _____

Model Two:

1. **Supervised learning method used in this model is**

   _____

2. **Why you choose this supervised learning method?**

- *Please use bullet points*

3. **Describe the method you used to evaluate this method.**

- *Please use bullet points*

4. **Describe process of experimenting different parameter settings or associated techniques.**

- Parameter name:
  - Parameter values:
  - Performance of different values:
    - *Please use bullet points*
  - Analysis:
    - *Please use bullet points*

- Parameter name:
  - Parameter values:
  - Performance of different values:
    - *Please use bullet points*
  - Analysis:
    - *Please use bullet points*

5. Accuracy and Confusion matrix with most suitable parameters

		Predicted	
		YES	NO
Correct	YES		
	NO		

Accuracy: _____

Model Three:

1. **Supervised learning method used in this model is**

   _____

2. **Why you choose this supervised learning method?**

- *Please use bullet points*

3. **Describe the method you used to evaluate this method.**

- *Please use bullet points*

4. **Describe process of experimenting different parameter settings or associated techniques.**

- Parameter name:
  - Parameter values:
  - Performance of different values:
    - *Please use bullet points*
  - Analysis:
    - *Please use bullet points*

- Parameter name:
  - Parameter values:
  - Performance of different values:
    - *Please use bullet points*
  - Analysis:
    - *Please use bullet points*

5. Accuracy and Confusion matrix with most suitable parameters

		Predicted	
		YES	NO
Correct	YES		
	NO		

Accuracy: _____

PART III: Best Hypothesis (No more than two pages for this part)

1. **Which model do you choose as final method?**

   Model number: _____

   Supervised learning method used in this model: _____

2. **Reasons for choosing this model.**

- *Please use bullet points*

3. **What are the reasons do you think that make it has the best performance?**

- *Please use bullet points*