**Course: Computer Science Module: 6006CEM Machine Learning and Related Applications**

**Student Name: Saad Iftikhar**

**Student ID: 9789180**

**Coventry GitHub Repository URL** or **Coventry OneDrive URL** (mandatory):

< <https://github.coventry.ac.uk/iftikhars/9789180-SI-s1>>

**Table of contents**

[Table of figures 2](#_Toc84718354)

[Introduction 3](#_Toc84718355)

[**Problem statement** : Predicting the Suicide rates of males and females at different ages 3](#_Toc84718356)

[Motivation: 3](#_Toc84718357)

[Related work 3](#_Toc84718358)

[Existing approaches or methods and their results 3](#_Toc84718359)

[Similarities and differences between this work and the existing works 3](#_Toc84718360)

[Dataset 5](#_Toc84718361)

[Pre-processing 6](#_Toc84718362)

[Implementation 7](#_Toc84718363)

[Results 8](#_Toc84718364)

[Evaluation 9](#_Toc84718365)

[Conclusion 10](#_Toc84718366)

[References 11](#_Toc84718367)

[Appendix A 11](#_Toc84718368)

[Appendix B 13](#_Toc84718369)

# Table of figures

# Introduction

## **Problem statement** :

## Motivation:

## Related work

## Existing approaches or methods and their results

## Similarities and differences between this work and the existing works

# Dataset

# Pre-processing

# Implementation

# Results

# Evaluation

# Conclusion

# References

**Later cross argument if required: https://wonder.cdc.gov/controller/datarequest/D76**

# Appendix A

< A suggested checklist for you, for full details please refer to the coursework brief >

1. The following naming convention is used for the Coventry GitHub Repository and Coventry OneDrive

StudentID-Initials-s1

For example, for a student Alan Turing whose student ID was 1234567, it should be

1234567-AT-s1

Failing to follow the naming convention may delay the release of marks and feedback for your coursework.

1. **Coventry** GitHub Repository URL **or** **Coventry** OneDrive URL: added to the top of this report
   1. Coventry GitHub Repository includes:

* URL of the selected dataset(s) included in README
* The original selected dataset(s)
* Source-code (.ipynb)
* Demonstration video (.mp4)
  1. Coventry OneDrive folder includes:
* URL of the selected dataset(s) included in a separated text file
* The original selected dataset(s)
* Source-code (.ipynb)
* Demonstration video (.mp4)

1. Source-code added **as text** in Appendix B (below)
2. Submission in the form of a **Word** document. *\*\*Other format is not accepted.*

# Appendix B

< **Replace** this instruction with all the Programming Code for the coursework.

Make sure you have highlighted and referenced any code not written by you >

< **DO NOT** use screenshots of your code here. Your code should be presented **as text**.

There are many good tools to help you format your code such as <http://hilite.me> >

< You can select and copy **all code at once** in a notebook by:

1. Graphical user interface, text, application

   Description automatically generatedclicking in any cell of the notebook, the cell will be highlighted in green as below
2. Graphical user interface, text, application

   Description automatically generatedthen press Esc on your keyboard, the selected cell will be highlighted in blue as below
3. now you can Ctrl+A to select all cells of the notebook

Graphical user interface, text, application

Description automatically generated

1. and then copy and paste as normal to some tool, such as hilite.me above, make sure you select a correct language (Python), then click Hightlight

Graphical user interface, text, application

Description automatically generated

1. you now can select the text in the Preview and copy and paste it over to this Appendix

Graphical user interface, text, application, email

Description automatically generated

1. finally, remember to remove all text in this instruction for this Appendix >