1. The following table gives, the income earned by people in a small neighborhood.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Age | Employment | Marrital status | Gender | Income (Rs) |
| 25 | Private | single | M | <5 Lakhs |
| 40 | Govt | married | M | >5 Lakhs |
| 30 | Private | single | F | >5 Lakhs |
| 60 | Self Employed | single | F | <5 lakhs |
| 20 | Govt | single | M | <5 lakhs |
| 50 | Private | single | F | >5 lakhs |
| 55 | Self Employed | married | F | <5 lakhs |
| 20 | Govt | married | M | <5 lakhs |
| 50 | Private | single | F | >5 Lakhs |
| 32 | Govt |  | M | <5 Lakhs |
| 60 | Self Employed | Married | F | <5 Lakhs |

There will be more data added to this set soon. We need to build the best model to classify the income to >5 Lakhs and <5 Lakhs with the available data.

1. Implement a logistic regression model for the above dataset
2. Implement logistics regression in adult dataset (please find the data set from: <https://github.com/lathanair13/Digital-Alpha> )