CS 6603: AI, Ethics, and Society  
Georgia Tech College of Computing

Written Critique 2

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# 1 step 2

## 1.1 Step 1

Protected variables - Gender, Race

Gender –

(i) Male

(ii) Female

Race – Group A (White), Group B (Black or African American), Group C (American Indian or Alaska Native), Group D (Asian), Group E (Native Hawaiian or other Pacific Islander)

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| --- | --- | --- |
| Protected Class Variable 1 | Protected Class Variable 2 | Subset 0f Membership |
| Male | Group A | Male Group A |
| Male | Group B | Male Group B |
| Male | Group C | Male Group C |
| Male | Group D | Male Group D |
| Male | Group E | Male Group E |
| Female | Group A | Female Group A |
| Female | Group B | Female Group B |
| Female | Group C | Female Group C |
| Female | Group D | Female Group D |
| Female | Group E | Female Group E |

|  |  |  |  |
| --- | --- | --- | --- |
| Race/Gender | Male | Female | Total |
| Group A | 53 | 36 | 89 |
| Group B | 86 | 104 | 190 |
| Group C | 139 | 180 | 319 |
| Group D | 133 | 129 | 262 |
| Group E | 71 | 69 | 140 |
| Total | 482 | 518 | 1000 |

## 1.2 Step 2

Gender

1. Male = 1
2. Female = 2

Race

1. Group A = 1
2. Group B = 2
3. Group C = 3
4. Group D = 4
5. Group E = 5

Dependent variable –

Overall\_result

1. Pass = 1
2. Fail = 0

Math\_result

1. Pass = 1
2. Fail = 0

Reading\_result

1. Pass = 1
2. Fail = 0

Writing\_result

1. Pass = 1
2. Fail = 0

|  |  |  |
| --- | --- | --- |
| Dependent Variable | Discrete value | |
| Pass | Fail |
| Overall\_result | 1 | 0 |
| Math\_result | 1 | 0 |
| Reading\_result | 1 | 0 |
| Writing\_result | 1 | 0 |

## 1.3 Step 3

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| --- | --- | --- |
| Sr. No. | Independent Variable | Dependent Variable – Overall\_result |
| 1. | Male | Frequency of Pass: 301  Frequency of Fail: 181 |
| 2. | Female | Frequency of Pass: 425  Frequency of Fail: 93 |
| 3. | Group A | Frequency of Pass: 51  Frequency of Fail: 38 |
| 4. | Group B | Frequency of Pass: 130  Frequency of Fail: 60 |
| 5. | Group C | Frequency of Pass: 230  Frequency of Fail: 89 |
| 6. | Group D | Frequency of Pass: 204  Frequency of Fail: 58 |
| 7. | Group E | Frequency of Pass: 111  Frequency of Fail: 29 |

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| --- | --- | --- |
| Sr. No. | Independent Variable | Dependent Variable – Math\_result |
| 1. | Male | Frequency of Pass: 356  Frequency of Fail: 126 |
| 2. | Female | Frequency of Pass: 321  Frequency of Fail: 197 |
| 3. | Group A | Frequency of Pass: 47  Frequency of Fail: 42 |
| 4. | Group B | Frequency of Pass: 119  Frequency of Fail: 71 |
| 5. | Group C | Frequency of Pass: 206  Frequency of Fail: 113 |
| 6. | Group D | Frequency of Pass: 190  Frequency of Fail: 72 |
| 7. | Group E | Frequency of Pass: 115  Frequency of Fail: 25 |

|  |  |  |
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| Sr. No. | Independent Variable | Dependent Variable – Reading\_result |
| 1. | Male | Frequency of Pass: 319  Frequency of Fail: 163 |
| 2. | Female | Frequency of Pass: 427  Frequency of Fail: 91 |
| 3. | Group A | Frequency of Pass: 54  Frequency of Fail: 35 |
| 4. | Group B | Frequency of Pass: 135  Frequency of Fail: 55 |
| 5. | Group C | Frequency of Pass: 244  Frequency of Fail: 75 |
| 6. | Group D | Frequency of Pass: 200  Frequency of Fail: 62 |
| 7. | Group E | Frequency of Pass: 113  Frequency of Fail: 27 |

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| --- | --- | --- |
| Sr. No. | Independent Variable | Dependent Variable – Writing\_result |
| 1. | Male | Frequency of Pass: 295  Frequency of Fail: 187 |
| 2. | Female | Frequency of Pass: 424  Frequency of Fail: 94 |
| 3. | Group A | Frequency of Pass: 52  Frequency of Fail: 37 |
| 4. | Group B | Frequency of Pass: 129  Frequency of Fail: 61 |
| 5. | Group C | Frequency of Pass: 225  Frequency of Fail: 94 |
| 6. | Group D | Frequency of Pass: 203  Frequency of Fail: 59 |
| 7. | Group E | Frequency of Pass: 110  Frequency of Fail: 30 |