Accuracy Analysis:

Data set 1

Data source: *https://www.youtube.com/watch?v=bL852kvYP1E*

Human analysis:

Positive: 37

Negative: 5

Neutral: 18

Software analysis:

Positive: 39

Negative: 07

Neutral: 14

Now we are going to calculate the accuracy of the software:

No. of observations = 60

Total correct response = 52

Total incorrect response = 08

Therefore, Efficiency = $\frac{Total\ correct\ response}{Total\ no.\ of\ observation} * 100$

$= \frac{52}{60} * 100$

= 86.67%

Data set 2

Data source: *https://www.youtube.com/watch?v=m8z4bixevms*

Human analysis:

Positive: 15

Negative: 06

Neutral: 29

Software analysis:

Positive: 17

Negative: 08

Neutral: 25

Now we are going to calculate the accuracy of the software:

No. of observations = 50

Total correct response = 42

Total incorrect response = 08

Therefore, Efficiency = $\frac{Total\ correct\ response}{Total\ no.\ of\ observation} * 100$

= $\frac{42}{50} * 100$

= **84%**

Data set 3

Data source*: https://www.youtube.com/watch?v=vJTGfxn2U6Y*

Human analysis:

Positive: 50

Negative: 14

Neutral: 46

Software analysis:

Positive: 51

Negative: 15

Neutral: 44

Now we are going to calculate the accuracy of the software:

No. of observations = 110

Total correct response = 106

Total incorrect response = 4

Therefore, Accuracy = $\frac{Total\ correct\ response}{Total\ no.\ of\ observation} * 100$

= $\frac{106}{110} * 100$

= **96.36%**

Average Accuracy

= $\frac{Summation\ of\ all\ the\ data\ sets\ accuracy}{total\ no.of\ data\ sets}$

= $\frac{86.67+84+96.36}{3}$

=89.01%

Therefore, overall accuracy rate is equal to **89.01%**