===> First phase

==> No preprocessing

=> Multinomial Bayes naive classifier

Score 1.: 86.49% Score 2.: 87.39% Score 3.: 86.68% Score 4.: 87.57% Score 5.: 85.86%

Score 6.: 86.57% Score 7.: 84.73% Score 8.: 83.38% Score 9.: 86.21% Score 10.: 85.40%

Average: 86.03%

=> Bernoulli multinomial Bayes naive classifier

Score 1.: 70.12% Score 2.: 71.84% Score 3.: 69.07% Score 4.: 71.43% Score 5.: 75.45%

Score 6.: 73.01% Score 7.: 73.76% Score 8.: 74.73% Score 9.: 68.17% Score 10.: 71.09%

Average: 71.87%

=> Support vector classifier

> L1/L2 comparing

Score(L2) 1.: 91.03% Score(L2) 2.: 86.77% Score(L2) 3.: 90.97% Score(L2) 4.: 86.47% Score(L2) 5.: 88.25%

Score(L2) 6.: 90.80% Score(L2) 7.: 87.58% Score(L2) 8.: 88.86% Score(L2) 9.: 88.79% Score(L2) 10.: 88.66%

Average: 88.82%

> Results with optimized C parameter

Optimized C: 0.280

=> Logistic regression

> L1/L2 comparing

Score(L2) 1.: 83.59% Score(L2) 2.: 87.62% Score(L2) 3.: 86.84% Score(L2) 4.: 89.88% Score(L2) 5.: 86.54%

Score(L2) 6.: 88.20% Score(L2) 7.: 88.04% Score(L2) 8.: 87.63% Score(L2) 9.: 92.09% Score(L2) 10.: 89.58%

Average: 88.00%

> Results with optimized C parameter

Optimized C: 4.600

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==> Lower casing

=> Multinomial Bayes naive classifier

Score 1.: 87.15% Score 2.: 88.39% Score 3.: 86.42% Score 4.: 85.36% Score 5.: 87.34%

Score 6.: 86.56% Score 7.: 90.36% Score 8.: 86.08% Score 9.: 87.07% Score 10.: 86.39%

Average: 87.11%

=> Bernoulli multinomial Bayes naive classifier

Score 1.: 70.15% Score 2.: 68.44% Score 3.: 70.84% Score 4.: 70.16% Score 5.: 71.75%

Score 6.: 72.95% Score 7.: 68.92% Score 8.: 72.14% Score 9.: 68.49% Score 10.: 71.11%

Average: 70.50%

=> Support vector classifier

> L1/L2 comparing

Score(L2) 1.: 91.39% Score(L2) 2.: 89.01% Score(L2) 3.: 89.30% Score(L2) 4.: 89.45% Score(L2) 5.: 92.39%

Score(L2) 6.: 89.27% Score(L2) 7.: 87.93% Score(L2) 8.: 88.54% Score(L2) 9.: 88.63% Score(L2) 10.: 89.09%

Average: 89.50%

> Results with optimized C parameter

Optimized C: 0.460

=> Logistic regression

> L1/L2 comparing

Score(L2) 1.: 88.15% Score(L2) 2.: 85.37% Score(L2) 3.: 88.14% Score(L2) 4.: 89.45% Score(L2) 5.: 88.19%

Score(L2) 6.: 87.05% Score(L2) 7.: 85.63% Score(L2) 8.: 85.46% Score(L2) 9.: 90.87% Score(L2) 10.: 87.39%

Average: 87.57%

> Results with optimized C parameter

Optimized C: 4.600

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==> Term Frequency

=> Multinomial Bayes naive classifier

Score 1.: 74.85% Score 2.: 77.36% Score 3.: 79.69% Score 4.: 77.88% Score 5.: 76.10%

Score 6.: 75.86% Score 7.: 80.03% Score 8.: 75.94% Score 9.: 74.70% Score 10.: 76.88%

Average: 76.93%

=> Bernoulli multinomial Bayes naive classifier

Score 1.: 71.11% Score 2.: 73.25% Score 3.: 73.65% Score 4.: 71.80% Score 5.: 77.01%

Score 6.: 74.39% Score 7.: 70.67% Score 8.: 75.80% Score 9.: 70.01% Score 10.: 71.47%

Average: 72.92%

=> Support vector classifier

> L1/L2 comparing

Score(L2) 1.: 91.20% Score(L2) 2.: 89.98% Score(L2) 3.: 86.48% Score(L2) 4.: 86.79% Score(L2) 5.: 87.80%

Score(L2) 6.: 87.56% Score(L2) 7.: 88.10% Score(L2) 8.: 86.28% Score(L2) 9.: 88.97% Score(L2) 10.: 90.13%

Average: 88.33%

> Results with optimized C parameter

Optimized C: 24.400

=> Logistic regression

> L1/L2 comparing

Score(L2) 1.: 80.75% Score(L2) 2.: 88.90% Score(L2) 3.: 85.20% Score(L2) 4.: 82.91% Score(L2) 5.: 82.25%

Score(L2) 6.: 85.04% Score(L2) 7.: 85.83% Score(L2) 8.: 86.21% Score(L2) 9.: 86.03% Score(L2) 10.: 84.06%

Average: 84.72%

> Results with optimized C parameter

Optimized C: 244.000

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==> Inverse Document Frequency

=> Multinomial Bayes naive classifier

Score 1.: 83.98% Score 2.: 89.31% Score 3.: 86.92% Score 4.: 87.73% Score 5.: 88.57%

Score 6.: 85.93% Score 7.: 89.39% Score 8.: 85.64% Score 9.: 87.30% Score 10.: 85.72%

Average: 87.05%

=> Bernoulli multinomial Bayes naive classifier

Score 1.: 73.41% Score 2.: 72.98% Score 3.: 72.24% Score 4.: 72.94% Score 5.: 69.51%

Score 6.: 74.12% Score 7.: 70.51% Score 8.: 72.03% Score 9.: 75.17% Score 10.: 71.86%

Average: 72.48%

=> Support vector classifier

> L1/L2 comparing

Score(L2) 1.: 85.82% Score(L2) 2.: 87.19% Score(L2) 3.: 88.32% Score(L2) 4.: 91.03% Score(L2) 5.: 89.15%

Score(L2) 6.: 89.62% Score(L2) 7.: 88.47% Score(L2) 8.: 90.00% Score(L2) 9.: 86.97% Score(L2) 10.: 88.36%

Average: 88.49%

> Results with optimized C parameter

Optimized C: 22.240

=> Logistic regression

> L1/L2 comparing

Score(L2) 1.: 88.17% Score(L2) 2.: 89.69% Score(L2) 3.: 90.62% Score(L2) 4.: 90.21% Score(L2) 5.: 87.19%

Score(L2) 6.: 86.94% Score(L2) 7.: 89.43% Score(L2) 8.: 89.06% Score(L2) 9.: 87.86% Score(L2) 10.: 86.73%

Average: 88.59%

> Results with optimized C parameter

Optimized C: 206.200

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==> Term Frequency–Inverse Document Frequency

=> Multinomial Bayes naive classifier

Score 1.: 81.59% Score 2.: 79.03% Score 3.: 79.62% Score 4.: 81.84% Score 5.: 75.54%

Score 6.: 80.26% Score 7.: 83.63% Score 8.: 80.33% Score 9.: 78.92% Score 10.: 83.12%

Average: 80.39%

=> Bernoulli multinomial Bayes naive classifier

Score 1.: 73.56% Score 2.: 70.49% Score 3.: 71.33% Score 4.: 76.24% Score 5.: 70.96%

Score 6.: 70.12% Score 7.: 71.97% Score 8.: 70.92% Score 9.: 72.70% Score 10.: 69.58%

Average: 71.79%

=> Support vector classifier

> L1/L2 comparing

Score(L2) 1.: 90.78% Score(L2) 2.: 89.55% Score(L2) 3.: 90.91% Score(L2) 4.: 86.80% Score(L2) 5.: 87.23%

Score(L2) 6.: 88.66% Score(L2) 7.: 91.82% Score(L2) 8.: 88.26% Score(L2) 9.: 88.76% Score(L2) 10.: 92.74%

Average: 89.55%

> Results with optimized C parameter

Optimized C: 2.800

=> Logistic regression

> L1/L2 comparing

Score(L2) 1.: 83.38% Score(L2) 2.: 82.89% Score(L2) 3.: 88.64% Score(L2) 4.: 85.71% Score(L2) 5.: 88.10%

Score(L2) 6.: 83.23% Score(L2) 7.: 83.85% Score(L2) 8.: 88.32% Score(L2) 9.: 84.45% Score(L2) 10.: 83.95%

Average: 85.25%

> Results with optimized C parameter

Optimized C: 226.000

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==> PorterStemmer

=> Multinomial Bayes naive classifier

Score 1.: 74.79% Score 2.: 76.28% Score 3.: 78.68% Score 4.: 78.47% Score 5.: 86.06%

Score 6.: 76.03% Score 7.: 80.87% Score 8.: 76.26% Score 9.: 78.70% Score 10.: 77.97%

Average: 78.41%

=> Bernoulli multinomial Bayes naive classifier

Score 1.: 65.65% Score 2.: 67.06% Score 3.: 69.07% Score 4.: 64.79% Score 5.: 67.60%

Score 6.: 64.15% Score 7.: 67.48% Score 8.: 63.44% Score 9.: 67.67% Score 10.: 67.21%

Average: 66.41%