Cluster. Modelo Kmeans. 3 Clusters

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|  |  | Mejor modelo | | |  |
|  | Variables + importantes | Modelos reg | Modelos clasf | Modelos Mixtos | Redes Neuronales |
| Cluster 0 | Edad, Freq actv física,Freq consumo alcohol, Activ económica actual  +  Vacunación gripe  Nivel estudios  Freq consumo carne | Polinómica (degree: 3 y 4), Score\_train: 1.0  Score\_test: -4.23 y -4.43  Con degree 2  Score\_train: .518, Score\_test: -0.1211  SVR  Score\_train: .9775  Score\_test: .9777 | SVC (C=10, gamma=1)  Score\_train: 1.0  Score\_test: 1.0 | DecissionTree  Score\_train: 1.0  Score\_test: 1.0 | softmax: .6484 (accuracy) |
| Cluster 1 | Edad, Freq actv física, Activ económica actual, Freq consumo alcohol,  +  Estado civil  Peso | Polinómica (degree: 3 y 4), Score\_train: 1.0  Score\_test: -4.97 y -4.42  Con degree 2  Score\_train: .3205, Score\_test: -37124459551284.48  SVR  Score\_train: .9765  Score\_test: .9773 | SVC (C=10, gamma=1)  Score\_train: 1.0  Score\_test: 1.0 | DecissionTree  Score\_train: 1.0  Score\_test: 1.0 | softmax: .6624(accuracy) |
| Cluster 2 | Edad, Freq actv física,Nivel estudios, Activ económica actual, Apoyo afectivo personalAmigosFamiliares  +  Freq consumo verdurasEnsaladasHortalizas | Polinómica (degree: 3 y 4), Score\_train: 1.0  Score\_test: -3.85 y -5.90  Con degree 2  Score\_train: .3474, Score\_test: 0.1990  SVR  Score\_train: .9772  Score\_test: .9769 | SVC (C=10, gamma=1)  Score\_train: 1.0  Score\_test: 1.0 | DecissionTree  Score\_train: 1.0  Score\_test: 1.0 | softmax: .6630 (accuracy) |

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|  | Variables + importantes | GridSearch: DecissionTree y SVC |
| Cluster 0 | Edad, Freq actv física,Freq consumo alcohol, Activ económica actual  +  Vacunación gripe  Nivel estudios  Freq consumo carne | **Variables + importantes**  SVC (C=10, gamma=1, coef0=-1.0, kernel=’rbf’)  Score: .6675  **Todas las variables**  DecisionTree (max\_depth = 3, min\_sample\_leaf = 1000, min\_samples\_split = 3000)  Score: .6516 |
| Cluster 1 | Edad, Freq actv física, Activ económica actual, Freq consumo alcohol,  +  Estado civil  Freq consumo verdurasEnsaladasHortalizas | **Variables + importantes**  DecisionTree (max\_depth = 3, min\_sample\_leaf = 1000, min\_samples\_split = 3000)  Score: .665  **Todas las variables**  DecisionTree (max\_depth = 3, min\_sample\_leaf = 1000, min\_samples\_split = 3000)  Score: .668 |
| Cluster 2 | Edad, Freq actv física,Nivel estudios, Activ económica actual, Apoyo afectivo personalAmigosFamiliares  +  Freq consumo verdurasEnsaladasHortalizas | **Variables + importantes**  DecisionTree (max\_depth = 3, min\_sample\_leaf = 1000, min\_samples\_split = 3000)  Score: .664  **Todas las variables**  DecisionTree (max\_depth = 3, min\_sample\_leaf = 1000, min\_samples\_split = 3000)  Score: .668 |

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|  | Variables + importantes | Voting: DecissionTree y SVC |
| Cluster 0 | Edad, Freq actv física,Freq consumo alcohol, Activ económica actual  +  Vacunación gripe  Nivel estudios  Freq consumo carne | **Variables + importantes**  Accuracy\_DT: .66  SVC: .66  Voting: .67  **Todas las variables**  Accuracy\_DT: .66  SVC: .653  Voting: .653  **Todas las variables. Soft voting**  Accuracy\_DT: .66  SVC: .653  Voting: .676 |
| Cluster 1 | Edad, Freq actv física, Activ económica actual, Freq consumo alcohol,  +  Estado civil  Freq consumo verdurasEnsaladasHortalizas | **Variables + importantes**  Accuracy\_DT: .653  SVC: .656  Voting: .656  **Todas las variables**  Accuracy\_DT: .643  SVC: .656  Voting: .656  **Todas las variables. Soft voting**  Accuracy\_DT: .643  SVC: .656  Voting: .653 |
| Cluster 2 | Edad, Freq actv física,Nivel estudios, Activ económica actual, Apoyo afectivo personalAmigosFamiliares  +  Freq consumo verdurasEnsaladasHortalizas | **Variables + importantes. Hard voting**  Accuracy\_DT: .663  SVC: .643  Voting: .646  **Todas las variables. Hard voting**  Accuracy\_DT: .656  SVC: .653  Voting: .653  **Todas las variables. Soft voting**  Accuracy\_DT: .656  SVC: .653  Voting: .67 |