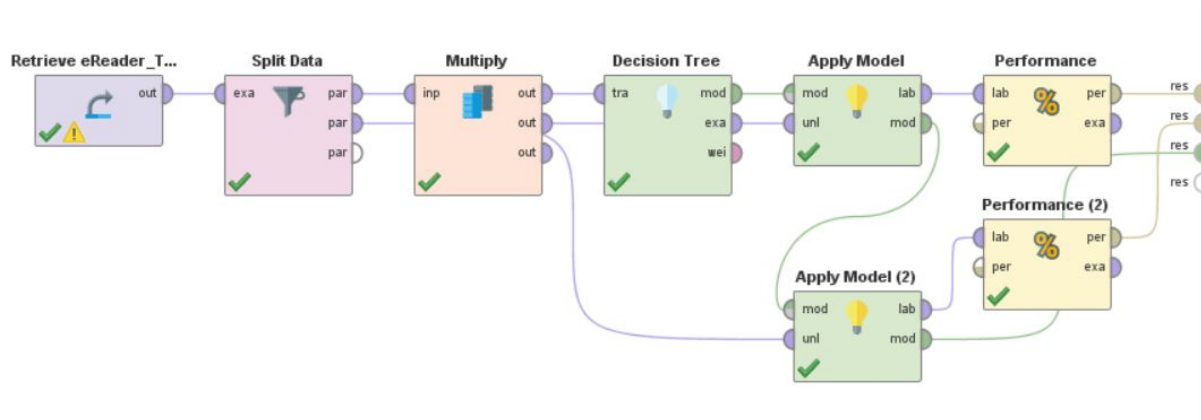


## TA4 - Enzo Cozza - Agustín Fernández

### Ejercicio 1



Performance para el dataset de entrenamiento:

accuracy: 88.55%

|                         | true MayoriaTardia | true Innovador | true AdoptanteTemprano | true MayoriaTemprana | class precision |
|-------------------------|--------------------|----------------|------------------------|----------------------|-----------------|
| pred. MayoriaTardia     | 120                | 3              | 11                     | 9                    | 83.92%          |
| pred. Innovador         | 0                  | 66             | 12                     | 7                    | 77.65%          |
| pred. AdoptanteTemprano | 0                  | 0              | 121                    | 11                   | 91.67%          |
| pred. MayoriaTemprana   | 0                  | 0              | 0                      | 103                  | 100.00%         |
| class recall            | 100.00%            | 95.65%         | 84.03%                 | 79.23%               |                 |

Performance de predicción para el dataset de test:

accuracy: 54.04%

|                         | true MayoriaTardia | true Innovador | true AdoptanteTemprano | true MayoriaTemprana | class precision |
|-------------------------|--------------------|----------------|------------------------|----------------------|-----------------|
| pred. MayoriaTardia     | 39                 | 4              | 10                     | 16                   | 56.52%          |
| pred. Innovador         | 5                  | 11             | 9                      | 2                    | 40.74%          |
| pred. AdoptanteTemprano | 6                  | 10             | 32                     | 13                   | 52.46%          |
| pred. MayoriaTemprana   | 2                  | 4              | 10                     | 25                   | 60.98%          |
| class recall            | 75.00%             | 37.93%         | 52.46%                 | 44.64%               |                 |

8.

| iteration | Decision Tree.minimal_leaf_size | Decision Tree.minimal_size_for_split | accuracy ↓ |
|-----------|---------------------------------|--------------------------------------|------------|
| 13        | 2                               | 20                                   | 0.648      |
| 2         | 6                               | 1                                    | 0.622      |
| 14        | 6                               | 20                                   | 0.620      |
| 10        | 6                               | 14                                   | 0.617      |
| 9         | 2                               | 14                                   | 0.613      |
| 16        | 15                              | 20                                   | 0.602      |
| 8         | 15                              | 7                                    | 0.599      |
| 5         | 2                               | 7                                    | 0.598      |
| 15        | 11                              | 20                                   | 0.596      |
| 11        | 11                              | 14                                   | 0.590      |
| 3         | 11                              | 1                                    | 0.589      |
| 7         | 11                              | 7                                    | 0.588      |
| 6         | 6                               | 7                                    | 0.586      |
| 12        | 15                              | 14                                   | 0.585      |
| 4         | 15                              | 1                                    | 0.583      |
| 1         | 2                               | 1                                    | 0.572      |

9.

