**1.Modelo RF5\_Indeg Apoio Spe tubos X All var**.

***Instrucciones modelo***: **test size = 0.23 ; rd\_state = 3.**

***Variables indep select to fit***:

variables = ['id', 'Indeg\_IntimAmigos\_', 'Indeg\_RedeRisk\_Cen', '1\_VarExp\_Moranca', '2\_VarExp\_Atri\_Tabanca', '5\_VarExp\_Atri\_Idade',

'Area\_bolanha', 'OutDeg\_RedeRisk\_Cen','OutDeg\_RedeConfianc']

***Model performance (scores):***

Mean Squared Error: 0.4333

R^2 Score: 0.4437 (In Excel: R2 = 0.4565 ; y = 0.4565 X + 0.9515)

**Model tot:**

Mean Squared Error (MSE): 0.2946

Root Mean Squared Error (RMSE): 0.5427

Mean Absolute Error (MAE):0.2636

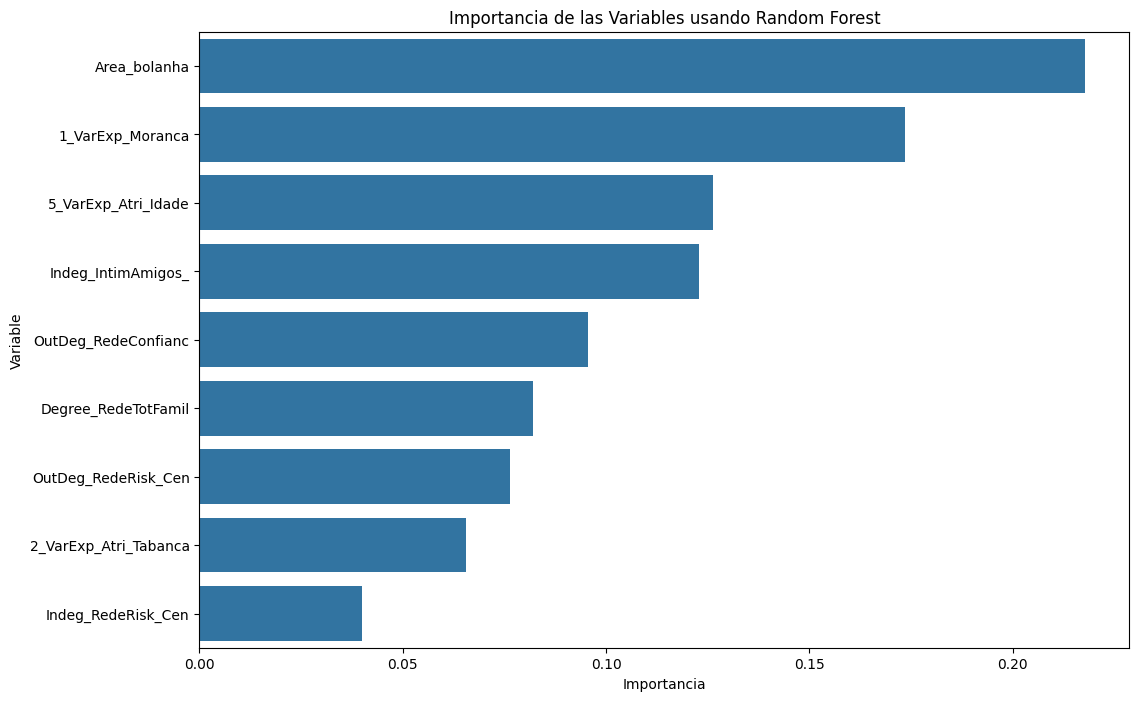
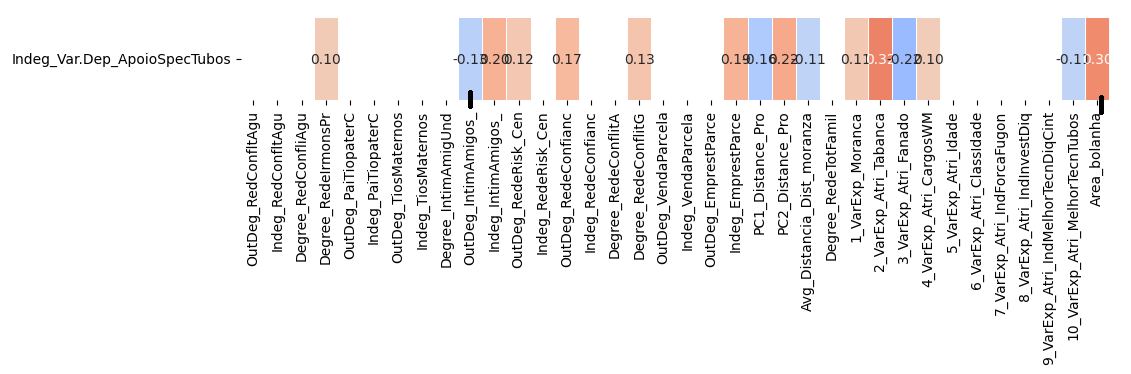
R^2 Score: 0.7122

Pearson Correlation: 0.8571

***Interactions***:

| **Interacción** | **Importancia** | **Dirección** |
| --- | --- | --- |
| 0 | (1\_VarExp\_Moranca, Area\_bolanha) | 0.209611 | 0.002230 |
| 1 | (2\_VarExp\_Atri\_Tabanca, Area\_bolanha) | 0.207512 | 0.161827 |
| 2 | (Degree\_RedeTotFamil, Area\_bolanha) | 0.197745 | 0.025353 |
| 3 | (Area\_bolanha, OutDeg\_RedeConfianc) | 0.196759 | 0.009248 |
| 4 | (1\_VarExp\_Moranca, 2\_VarExp\_Atri\_Tabanca) | 0.189554 | 0.000929 |
| 5 | (Indeg\_IntimAmigos\_, Area\_bolanha) | 0.187689 | 0.005487 |
| 6 | (5\_VarExp\_Atri\_Idade, Area\_bolanha) | 0.181713 | 0.004021 |
| 7 | (2\_VarExp\_Atri\_Tabanca, OutDeg\_RedeConfianc) | 0.176002 | 0.213737 |
| 8 | (Indeg\_IntimAmigos\_, 5\_VarExp\_Atri\_Idade) | 0.168981 | 0.007895 |
| 9 | (Degree\_RedeTotFamil, 2\_VarExp\_Atri\_Tabanca) | 0.167629 | 0.023098 |

***Key results****:*

**1.Modelo RF5\_Outdeg Apoio Spe tubos X All var**.

***Instrucciones modelo***: **test size = 0.23 ; rd\_state = 3**

***Variables indep select to fit***:

variables = ['id', 'Degree\_IntimAmigUnd', 'Indeg\_RedeConfianc', 'Degree\_RedeTotFamil', '7\_VarExp\_Atri\_IndForcaFugon', '9\_VarExp\_Atri\_IndMelhorTecnDiqCint', '10\_VarExp\_Atri\_MelhorTecnTubos']

***Model performance (scores):***

Mean Squared Error: 0.4667

R^2 Score: 0.9237 (on excel: **R2= 0.9406 ; Y = 0.8171 X + 2.069** )

**Model tot:**

Mean Squared Error (MSE): 5.33

Root Mean Squared Error (RMSE): 2.3094

Mean Absolute Error (MAE): 0.4651

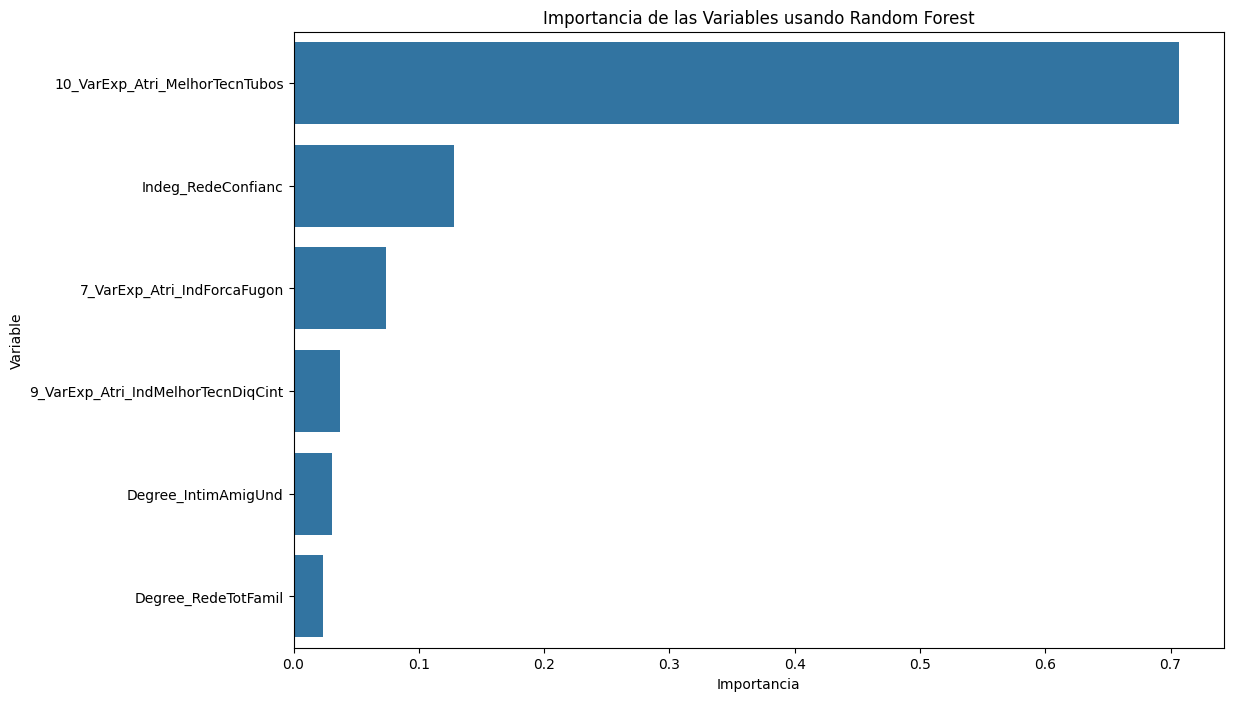
R^2 Score: 0.9337

Pearson Correlation: 0.9937

***Interactions***:

| **Interacción** | **Importancia** | **Dirección** |
| --- | --- | --- |
| 0 | (7\_VarExp\_Atri\_IndForcaFugon, 10\_VarExp\_Atri\_M... | 11.234918 | 0.919345 |
| 1 | (Indeg\_RedeConfianc, 10\_VarExp\_Atri\_MelhorTecn... | 11.199238 | 1.006930 |
| 2 | (Degree\_IntimAmigUnd, 10\_VarExp\_Atri\_MelhorTec... | 11.167017 | 0.172229 |
| 3 | (Degree\_RedeTotFamil, 10\_VarExp\_Atri\_MelhorTec... | 10.979623 | 0.109391 |
| 4 | (9\_VarExp\_Atri\_IndMelhorTecnDiqCint, 10\_VarExp... | 10.915314 | 0.121743 |
| 5 | (Indeg\_RedeConfianc, 7\_VarExp\_Atri\_IndForcaFugon) | 2.998382 | 1.002968 |
| 6 | (Indeg\_RedeConfianc, 9\_VarExp\_Atri\_IndMelhorTe... | 2.302823 | 1.001513 |
| 7 | (Degree\_IntimAmigUnd, Indeg\_RedeConfianc) | 2.292305 | 0.135826 |
| 8 | (Indeg\_RedeConfianc, Degree\_RedeTotFamil) | 2.239744 | 0.993353 |
| 9 | (Degree\_IntimAmigUnd, 7\_VarExp\_Atri\_IndForcaFu... | 1.550193 | 0.135049 |

***Key results****:*

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