**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\_', '1\_VarExp\_Moranca', '2\_VarExp\_Atri\_Tabanca', 'Area\_bolanha', Degree Family; 'OutDeg\_RedeRisk\_Cen','OutDeg\_RedeConfianc']

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

Mean Squared Error: 0.4

R^2 Score: 0.4864 (In Excel: R2 = 0.526 ; y = 0.4322 X + 1.0228)

**Model tot:**

Mean Squared Error (MSE): 0.2713

Root Mean Squared Error (RMSE): 0.5209

Mean Absolute Error (MAE):0.2558

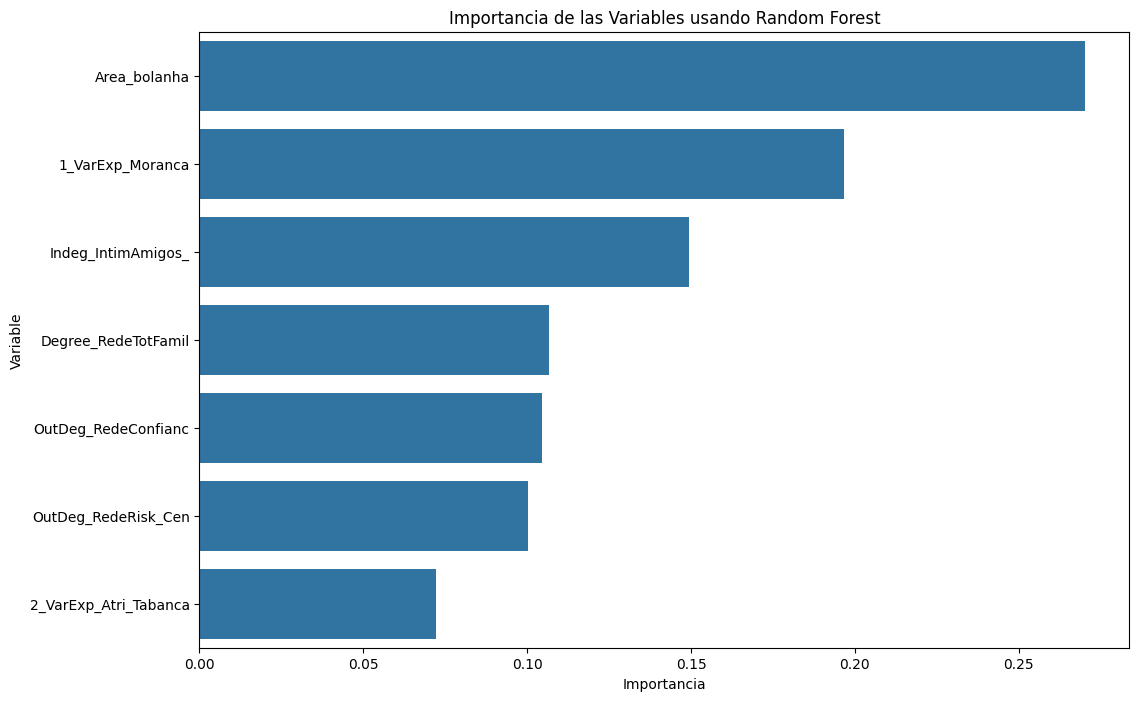
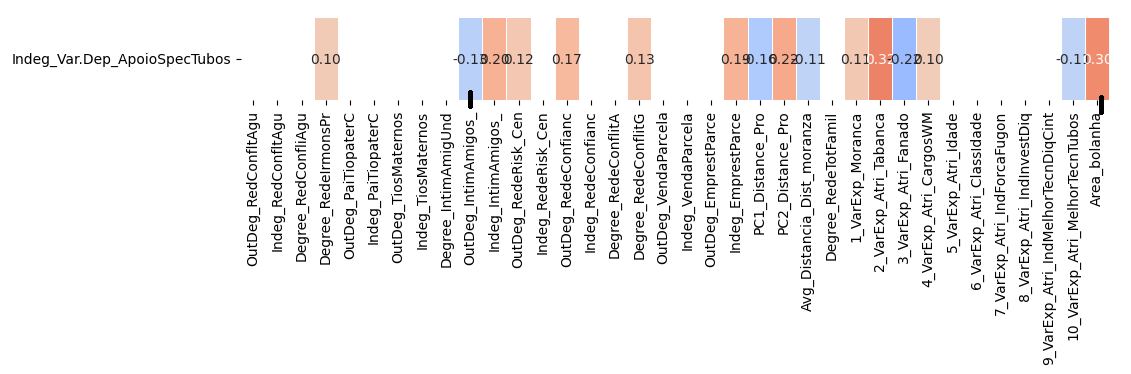
R^2 Score: 0.7349

Pearson Correlation: 0.8703

***Interactions***:

|  | **Interacción** | **Importancia** | **Dirección** |
| --- | --- | --- | --- |
| 0 | (1\_VarExp\_Moranca, Area\_bolanha) | 0.237641 | 0.002105 |
| 1 | (2\_VarExp\_Atri\_Tabanca, Area\_bolanha) | 0.233476 | 0.178090 |
| 2 | (Area\_bolanha, OutDeg\_RedeConfianc) | 0.224940 | 0.010708 |
| 3 | (Indeg\_IntimAmigos\_, Area\_bolanha) | 0.220684 | 0.010063 |
| 4 | (1\_VarExp\_Moranca, 2\_VarExp\_Atri\_Tabanca) | 0.213983 | 0.000816 |
| 5 | (Degree\_RedeTotFamil, Area\_bolanha) | 0.208006 | 0.024624 |
| 6 | (2\_VarExp\_Atri\_Tabanca, OutDeg\_RedeConfianc) | 0.201874 | 0.249835 |
| 7 | (1\_VarExp\_Moranca, OutDeg\_RedeConfianc) | 0.183369 | 0.005936 |
| 8 | (Indeg\_IntimAmigos\_, 1\_VarExp\_Moranca) | 0.179430 | 0.010796 |
| 9 | (Indeg\_IntimAmigos\_, 2\_VarExp\_Atri\_Tabanca) | 0.173590 | 0.013690 |

***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', Indeg\_IntimAmigUnd', 'Indeg\_RedeConfianc', 'Degree\_RedeTotFamil', '7\_VarExp\_Atri\_IndForcaFugon', '9\_VarExp\_Atri\_IndMelhorTecnDiqCint', '10\_VarExp\_Atri\_MelhorTecnTubos']

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

Mean Squared Error: 0.4333

R^2 Score: 0.9291 (on excel: **R2= 0.9465 ; Y = 0.8188 X + 0.1056**)

**Model tot:**

Mean Squared Error (MSE): 5.3721

Root Mean Squared Error (RMSE): 2.3178

Mean Absolute Error (MAE): 0.4574

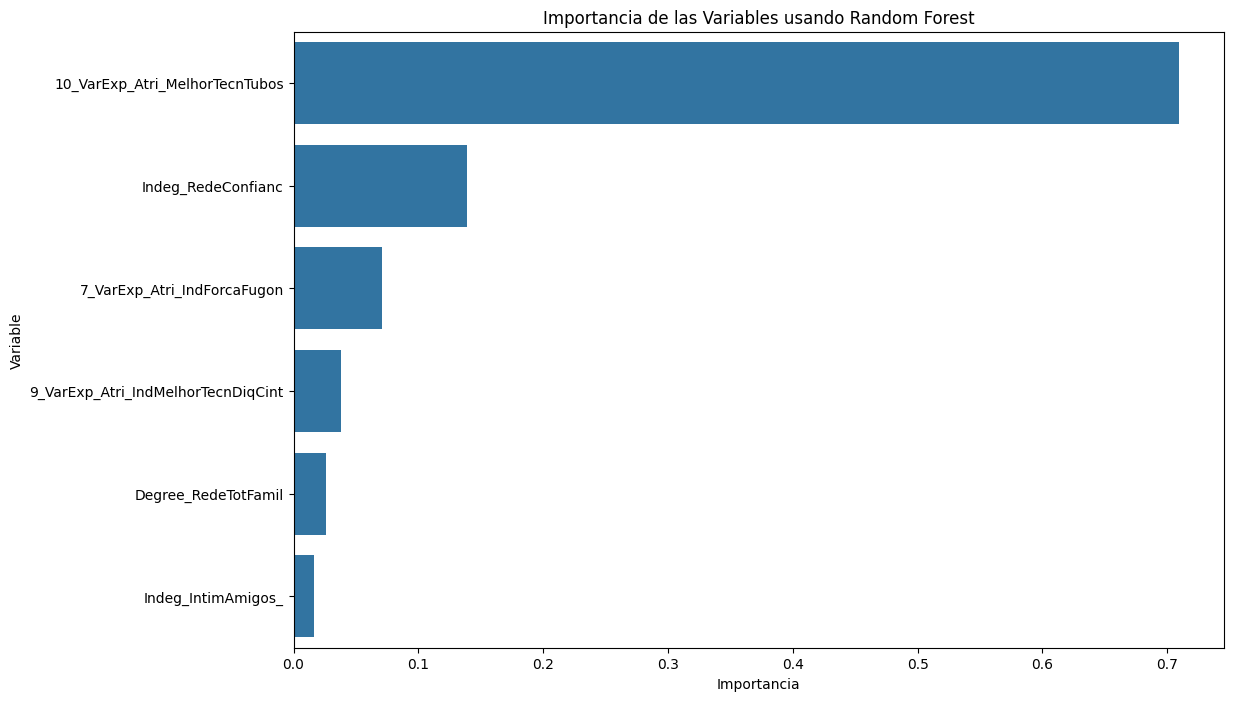
R^2 Score: 0.9332

Pearson Correlation: 0.993

***Interactions***:

| **Interacción** | **Importancia** | **Dirección** |
| --- | --- | --- |
| 0 | (Indeg\_RedeConfianc, 10\_VarExp\_Atri\_MelhorTecn... | 11.408878 | 1.099170 |
| 1 | (7\_VarExp\_Atri\_IndForcaFugon, 10\_VarExp\_Atri\_M... | 11.250491 | 0.898235 |
| 2 | (Indeg\_IntimAmigos\_, 10\_VarExp\_Atri\_MelhorTecn... | 11.170840 | 0.098909 |
| 3 | (Degree\_RedeTotFamil, 10\_VarExp\_Atri\_MelhorTec... | 10.917921 | 0.118578 |
| 4 | (9\_VarExp\_Atri\_IndMelhorTecnDiqCint, 10\_VarExp... | 10.857250 | 0.124384 |
| 5 | (Indeg\_RedeConfianc, 7\_VarExp\_Atri\_IndForcaFugon) | 3.169050 | 1.105053 |
| 6 | (Indeg\_IntimAmigos\_, Indeg\_RedeConfianc) | 2.502028 | 0.062480 |
| 7 | (Indeg\_RedeConfianc, Degree\_RedeTotFamil) | 2.493367 | 1.105166 |
| 8 | (Indeg\_RedeConfianc, 9\_VarExp\_Atri\_IndMelhorTe... | 2.480166 | 1.087512 |
| 9 | (7\_VarExp\_Atri\_IndForcaFugon, 9\_VarExp\_Atri\_In... | 1.535761 | 0.874348 |

***Key results****:*

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